APExBIO
An Apoptosis and Epigenetics Company
www.apexbt.com

Product Catalog 2017-2018

Small Molecule Compounds
Big Biomedical Research

DiscoveryProbe™ Compound Library

Bioactive Compound Library	2490	FDA-approved Drug Library	1297
Anti-cancer Compound Library	760	Kinase Inhibitor Library	430
GPCR Compound Library	357	Neuronal Signaling Library	290
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Features:

- 27 compounds libraries cover diverse research areas
- 2500 + validated and potent bioactive compounds
- Target wide range of molecules on various signaling pathways
- Applicable in cellular assays, animal models and drug screenings

Customize the library with your own choices of:

- Compounds
- Sizes
- Quantities
- Concentrations
- Chemical forms
- Plate maps

Representative users of the compound library for high-throughput screening

For more information, please visit our website—www.apexbt.com/screening-library.html

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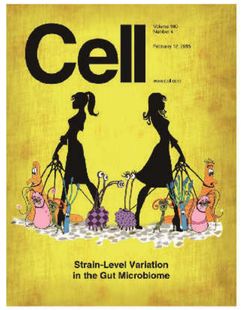
2015;160(4):729-744.



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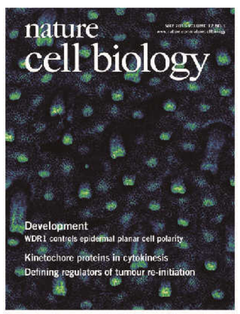

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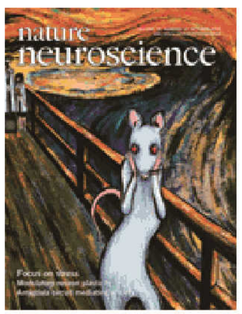

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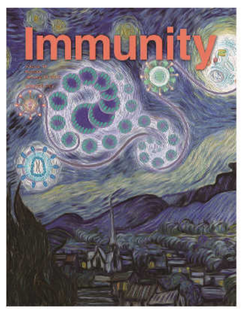

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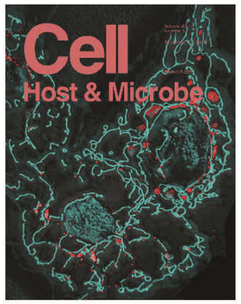

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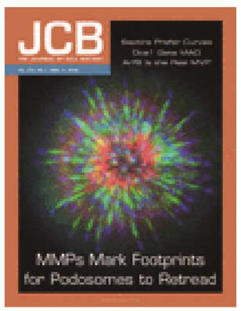

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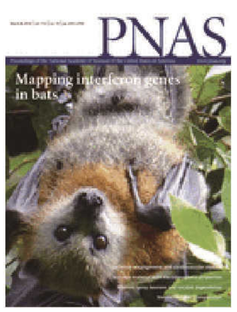

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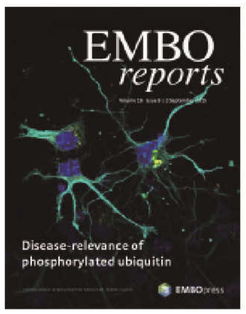

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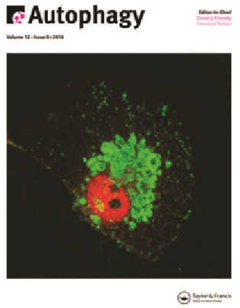

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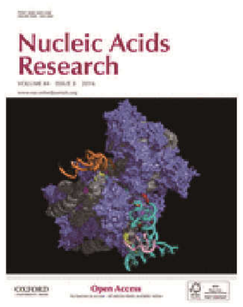

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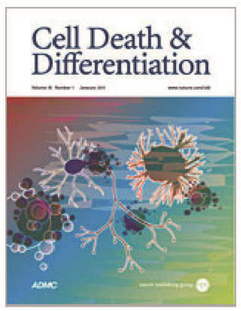

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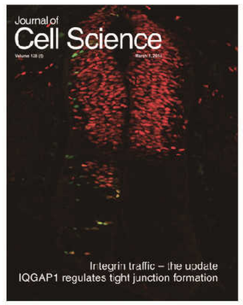

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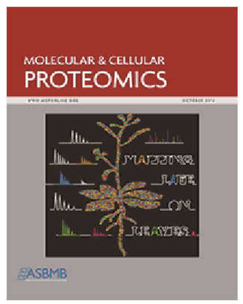

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For more product citations, please visit our website—www.apexbt.com

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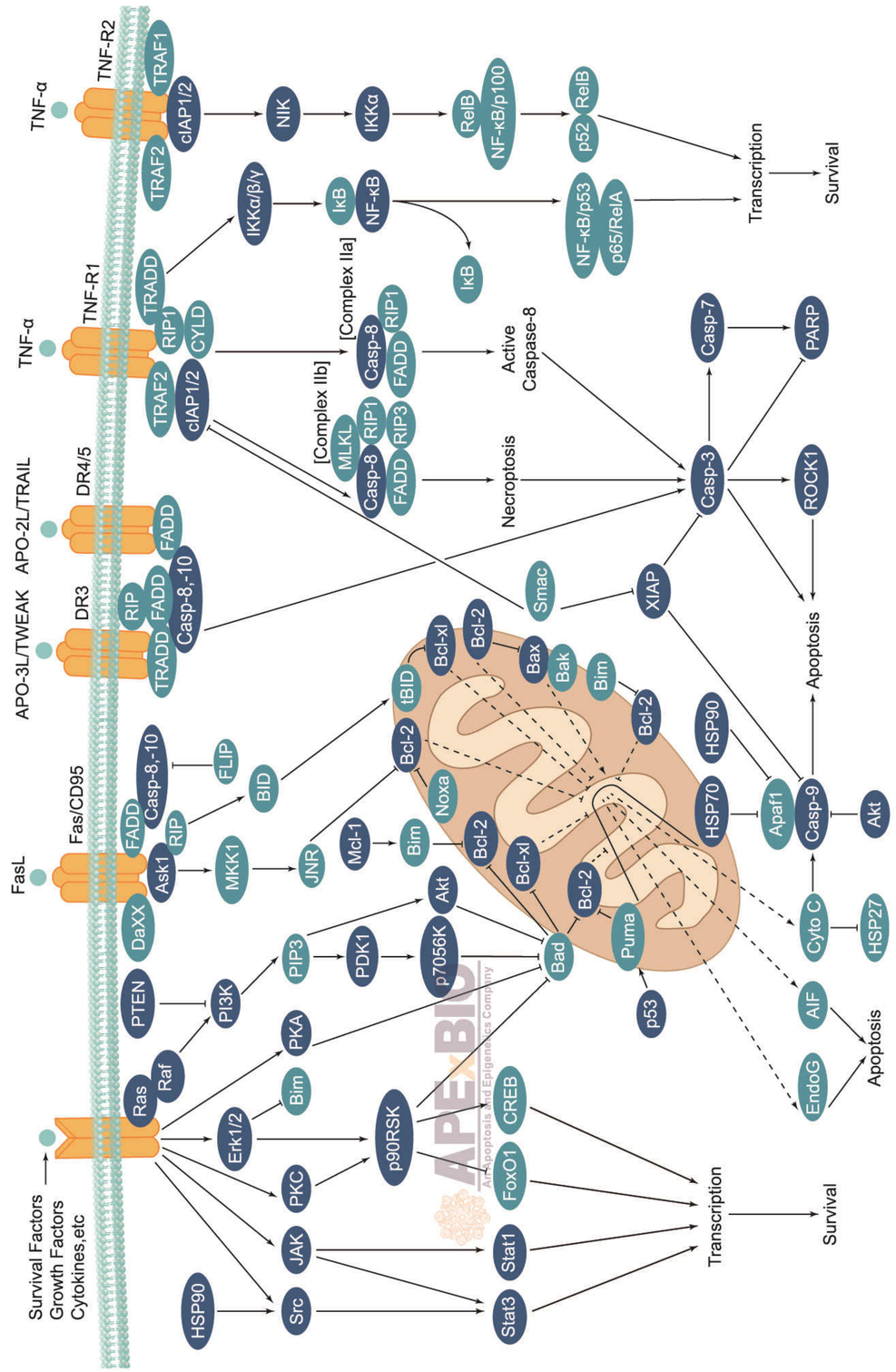
Apoptosis

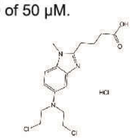


Apoptosis

Apoptosis Inducers

A1984 Bendamustine HCl

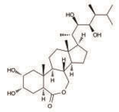
Bendamustine HCl is an alkylating agent associated with DNA damage with IC50 of 50 μM.



Size:5 mg,10 mg
Soluble in DMSO > 10 mM

A3265 Brassinolide

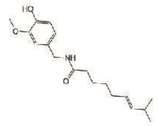
Brassinolide is a plant growth regulator.



Size:5 mg,10 mg
Soluble in DMSO

A3278 Capsaicin

Capsaicin is an anti-proliferation agent with IC50 value of 100 μM in A172 cells.



Size:50 mg,100 mg
Soluble in DMSO > 10 mM

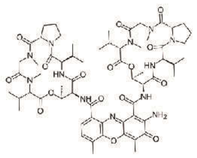
A3583 Matrine

Matrine is an alkaloid inhibit gastric cancer cell line MNK45, MTT with IC50 value of 540 μg/ml.

Size:100 mg,200 mg,500 mg
Soluble in water ,ethanol, chloroform, toluene, and benzene

A4448 Actinomycin D

Actinomycin D is RNA polymerase inhibitor with the IC50 of 0.42 μM.

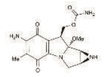


Size:5mg,10mg,50mg
Soluble in DMSO > 10 mM

Tumor size after treated with Actinomycin D, SAHA or both.

A4452 Mitomycin C

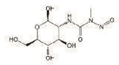
Mitomycin C is an antibiotic and antitumor agent,which inhibits DNA synthesis.



Size:5mg,10mg
Soluble in DMSO > 10 mM

A4457 Streptozocin

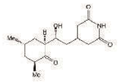
Streptozocin is antibiotic and antitumor agent, which alkylates DNA and induces diabetes mellitus via reduction of nicotinamide adenine dinucleotide in pancreatic β-cells in vivo.



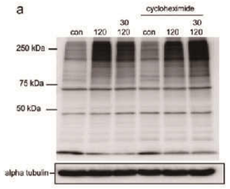
Size:100 mg,500 mg
Soluble in DMSO > 10 mM

A8244 Cycloheximide

Cycloheximide is an inhibitor of protein biosynthesis in eukaryotic organisms.



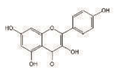
Size:200mg,500mg,1g,5g
Soluble to 50 mM in ethanol and to 25 mM in sterile water



Cycloheximide prevents the reduction of sumo-2/3-ylation.

N1719 Kaempferol

Kaempferol is a type of flavonoid,and also acts as an apoptosis inducer and antioxidant.



Size:20 mg
Soluble in DMSO > 10 mM

Bcl-2 Family Inhibitors / Activators

Potency Comparison

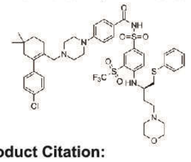
Inhibitors	Bcl-2	Bcl-xl	Bcl-w	Mcl-1	Bax
ABT-199	***** (Ki:<0.01 nM)				
ABT-263 (Navitoclax)	***** (Ki:≤1 nM)	***** (Ki:≤0.5 nM)	***** (Ki:≤1 nM)		
ABT-737	**** (IC_{50}:30.3 nM)	**** (IC_{50}:78.7 nM)	*** (IC_{50}:197.8 nM)		
Apogossypolone (ApoG2)	**** (Ki:35 nM)	*** (Ki:660 nM)		**** (Ki:25 nM)	
Bax inhibitor peptide P5					*
Bax inhibitor peptide V5					*
Gossypol	*	*			
HA14-1	** (IC_{50}:9 μM)				
MIM1				*	
Obatoclax mesylate (GX15-070)	*** (Ki:0.22 μM)				
TW-37	*** (Ki:0.29 μM)	** (Ki:1.11 μM)		* (Ki:0.26 μM)	
UMI-77				* (Ki:0.49 μM)	

Activators	Bcl-2	Bcl-xl	Bcl-w	Mcl-1	Bax
iMAC2					*** (IC_{50}:0.68 μM)
Muristerone A		*			
BAM7					** (IC_{50}:3.3 μM)

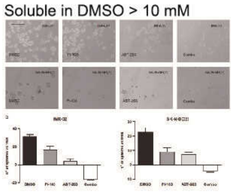
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3007 ABT-263 (Navitoclax)

ABT-263 (Navitoclax) is a potent inhibitor of Bcl-xL, Bcl-2 and Bcl-w with Ki of ≤ 0.5 nM, ≤1 nM and ≤1 nM.



Size:5 mg,10 mg,50 mg,100 mg 1g,1200mg
Soluble in DMSO > 10 mM

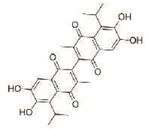


Product Citation:
Oncogene. (2016). PMID: 26996667

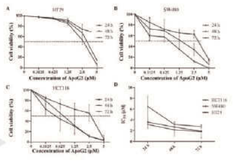
Navitoclax reduces the viability of NB tumor spheroids.

A4200 Apogossypolone (ApoG2)

Apogossypolone is an inhibitor of Bcl-2, Mcl-1 and Bcl-XL with Ki values of 35nM, 25nM and 660nM, respectively.



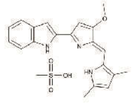
Size:5 mg,25 mg
Soluble in DMSO,Water and Ethanol



Growth-inhibitory effects of ApoG2 on different cells.

A4194 Obatoclax mesylate (GX15-070)

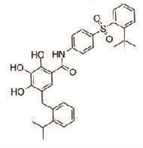
Obatoclax (GX15-070) is an antagonist of Bcl-2 with Ki of 0.22 μM, can assist in overcoming MCL-1 mediated resistance to apoptosis.



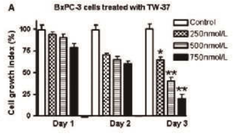
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A4234 TW-37

TW-37 is a novel nonpeptide inhibitor to recombinant Bcl-2, Bcl-xL and Mcl-1 with Ki of 0.29 μM, 1.11 μM and 0.26 μM, respectively.



Size:10 mg,25 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



Effect of TW-37 on pancreatic cancer cell growth.

A4460 Bax inhibitor peptide P5

Bax inhibitor peptide P5 (BIP P5) is a peptide inhibitor of Bax translocation to mitochondria.

Size:5 mg,10 mg,100 mg
Soluble to 1 mg/ml in sterile water

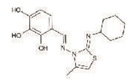
A4461 Bax inhibitor peptide V5

Bax inhibitor peptide V5 (BIP V5) is a peptide inhibitor of Bax translocation to mitochondria.

Size:5 mg,10 mg,100 mg
Soluble to 1 mg/ml in sterile water

A4465 MIM1

MIM1 is a potent Mcl-1 Inhibitor with IC50 value of 4.2 mM for MCL-1-dependent cells.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

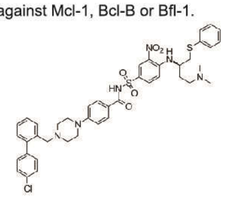
A8168 HA14-1

HA14-1 is a non-peptidic ligand of a Bcl-2 surface pocket with IC50 of 9 μM.

Size:20 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

A8193 ABT-737

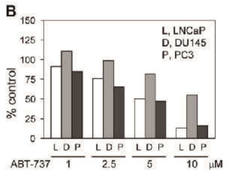
ABT-737 is a BH3 mimetic inhibitor of Bcl-xL, Bcl-2 and Bcl-w with EC50 of 78.7 nM, 30.3 nM and 197.8 nM, respectively; no inhibition observed against Mcl-1, Bcl-B or Bfl-1.



Size:5 mg,10 mg,50 mg,100 mg, 500mg
Soluble in DMSO > 10 mM

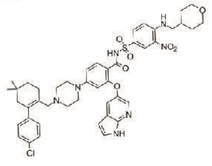
Product Citation:
J Immunol. (2016) PMID: 26582950

Bcl-2 family protein levels and sensitivity to ABT-737 in PCa cells.

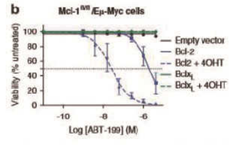


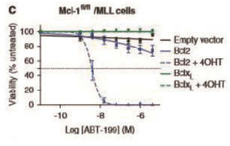
A8194 ABT-199

ABT-199 (GDC-0199) is a Bcl-2-selective inhibitor with Ki of <0.01 nM, >4800-fold more selective versus Bcl-xL and Bcl-w, and no activity to Mcl-1.



Size:1 mg,5 mg,50 mg
Soluble in DMSO > 10 mM



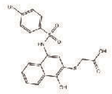


Product Citation:
Int Oncol. (2016) PMID: 27277143

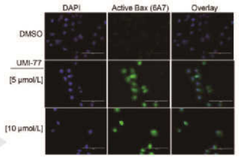
Overexpressing Bcl-2 sensitises normal lymphoid cells to ABT-199.

B4881 UMI-77

UMI-77 is a novel small-molecule inhibitor of Mcl-1 with Ki and IC50 values of 0.49 μM and 0.31 μM.



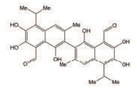
Size:5 mg,25 mg
Soluble in DMSO > 10 mM



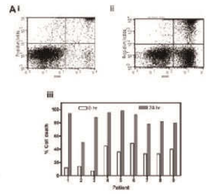
Effect of UMI-77 on pancreatic cancer cell growth and apoptosis.

N2135 Gossypol

Gossypol is an inhibitor of platelet-activating factor (PAF).



Size:50 mg,100 mg,200 mg
Soluble in DMSO > 10 mM

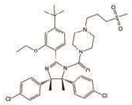


Gossypol induces cell death in CLL lymphocytes.

MDM2 Inhibitor

A3762 RG7112

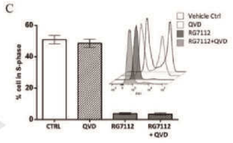
RG7112 is a selective inhibitor of p53-MDM2 binding that frees p53 from negative control, activating the p53 pathway in cancer cells leading to cell cycle arrest and apoptosis.



Size:10 mg,100 mg
Soluble in DMSO

Product Citation:
Nat Commun. (2016)
PMID: 26832969

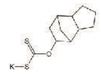
RG7112 activates p53 signaling in leukemia cells in vitro.



PC-PLC Inhibitor

A3343 D609

D609 is a specific and competitive inhibitor of PC-PLC with a Ki value of 6.4 μM.



Size:5mg,10mg,50mg
Soluble in DMSO > 10 mM

Caspase Inhibitors / Activators

Potency Comparison

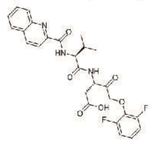
Inhibitors	Pan-caspase	Caspase-1	Caspase-3	Caspase-5	Caspase-6	Caspase-7	Caspase-8	Caspase-9
Apoptosis Inhibitor			*					
Boc-D-FMK	*							
Caspase-3/7 Inhibitor I			**** (Ki:60 nM)			*** (Ki:170 mM)		
Q-VD(OMe)-OPh	*							
Q-VD-OPh hydrate		**** (IC_{50}:50 nM)	**** (IC_{50}:25 nM)				*** (IC_{50}:100 nM)	*** (IC_{50}:430 nM)
Z-DEVD-FMK			*		*	*	*	*
Z-FA-FMK	*							
Z-IETD-FMK							*	
Z-VAD-FMK	* (IC_{50}:0.0015 - 5.8 mM)							
Z-YVAD-FMK		*						
AZ 10417808			* (IC_{50}:14.9 μM)					
Ivachtin			**** (IC_{50}:23 nM)					

Activators	Pan-caspase	Caspase-1	Caspase-3	Caspase-5	Caspase-6	Caspase-7	Caspase-8	Caspase-9
Cisplatin			*					
Gambogic Acid	*** (EC_{50}:0.78-1.64 μM)							
PAC-1			*** (EC_{50}:0.22 μM)			** (EC_{50}:4.5 μM)		

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

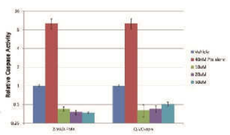
A1901 Q-VD-OPh hydrate

The broad spectrum caspase inhibitor, QVD-OPh, provides a cost effective, non toxic, and highly specific means of apoptotic inhibition.



Size:1 mg,5 mg,10 mg,25 mg
Soluble in DMSO

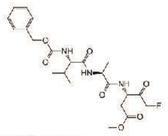
Product Citation:
Nature. (2015) PMID: 26266977



Caspase inhibitor Q-VD-Oph.

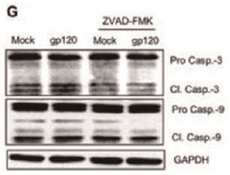
A1902 Z-VAD-FMK

Z-VAD-FMK, an inhibitor of ICE-like proteases, inhibits apoptosis in THP.1 cells.



Size:1 mg,5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM

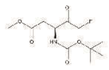
Product Citation:
Nat Commun. (2015)
PMID: 26104484



Effect of ZVAD-FMK on cleaved and pro caspase-3 and caspase-9.

A1904 Boc-D-FMK

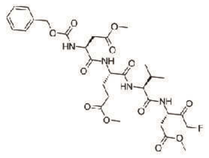
Boc-D-FMK is a cell-permeable broad-spectrum caspase inhibitor that fully inhibits the pro-apoptotic effect of TNFα with the IC50 value of 39 μM.



Size:1 mg,5 mg,10 mg,25 mg
Soluble in DMSO

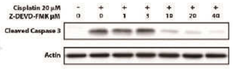
A1920 Z-DEVD-FMK

Z-DEVD-FMK is a tetrapeptide caspase inhibitor that is considered relatively selective for caspase-3.



Size:1 mg,5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM

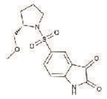
Product Citation:
J Immunol. (2016) PMID: 27385778



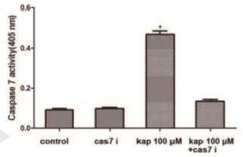
Z-DEVD-FMK inhibited cisplatin induced caspase 3 activation.

A1925 Caspase-3/7 Inhibitor I

Caspase-3/7 inbibitor I is a potent reversible isatin sulfonamide-based inhibitor of caspase-3 and caspase-7 with Ki values of 60 nM and 170 nM, respectively.



Size:1 mg,5 mg,10 mg,25 mg
Soluble in DMSO

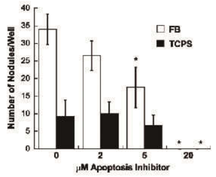


Effect of caspase-3/7 inbibitor I on caspase 7 activity.

A1930 Apoptosis Inhibitor

M50054, 2,2'-methylenebis (1,3-cyclohexanedione), is a novel cell-permeable inhibitor of apoptosis induction, associated with caspase-3 inhibition.

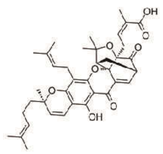
Size:10 mg,25 mg,100 mg
Soluble in DMSO



Impact of apoptosis inhibition (M50054) on nodule formation.

A3424 Gambogic Acid

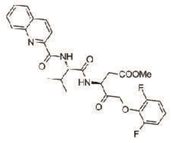
Gambogic acid (GA) is an inducer of apoptosis with EC50 value of 0.78-1.64 μM for caspases and with IC50 values of 1.47, 1.21, 2.02, 0.66, 1.06 and 0.79 μM for Bcl-XL, Bcl-2, Bcl-W, Bcl-B, Bfl-1 and Mcl-1, respectively.



Size:5mg,10mg,25mg
Soluble in DMSO > 10 mM

A8165 Q-VD(OMe)-OPh

Q-VD-OPh (quinolyl-valyl-O-methylaspartyl-[-2,6-difluorophenoxy]-methyl ketone) is a broad spectrum caspase inhibitor.



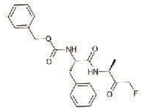
Size:1 mg,5 mg,10 mg,25 mg
Soluble in DMSO

Product Citation:
Immunity. (2016) PMID: 26795252

Q-VD-Oph inhibits Cisplatin induced ccaspase 3 activation.

A8170 Z-FA-FMK

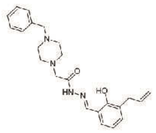
Z-FA-FMK is a control peptidic fluoromethylketone (boc-Thr-CH2F), and an inhibitor to calpain, cathepsin B, and CPP32-like proteases.



Size:1 mg,5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM

A8177 PAC-1

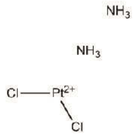
First procaspase-activating compound (PAC-1) is an activator of procaspase-3 that directly catalyzes the maturation of procaspase-3 to the active caspase-3.



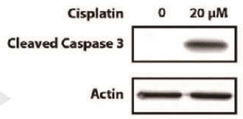
Size:10 mg,25mg,50 mg,100mg
250mg
Soluble in DMSO > 10 mM

A8321 Cisplatin

Cisplatin is a highly effective and broad-spectrum chemotherapeutic agent.



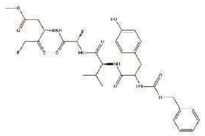
Size:100mg
Soluble in DMSO > 10 mM



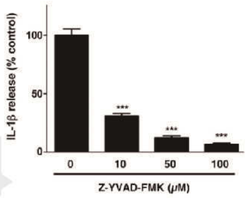
Cisplatin induces caspase 3 activation.

A8955 Z-YVAD-FMK

Z-YVAD-FMK is a potent cell-permeable and irreversible inhibitor of caspase-1.



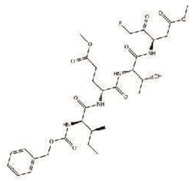
Size:1 mg,5 mg
Soluble in DMSO



Effect of Z-YVAD-FMK on release of IL-1β.

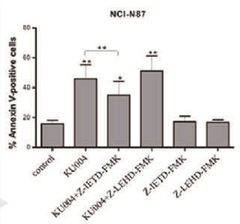
B3232 Z-IETD-FMK

Z-IETD-FMK is an inhibitor of caspase 8.



Size:1 mg,5 mg
Soluble in DMSO

Product Citation:
Apoptosis. (2015) PMID: 26437915



KU004 induces apoptosis mainly via the extrinsic pathway.

IAP Inhibitors

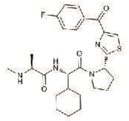
Potency Comparison

Inhibitors	IAP	XIAP	c-IAP1	c-IAP2	Survivin	ML-IAP
Birinapant (TL32711)		*** (Kd:45 nM)	***** (Kd:＜1 nM)			
BV6	* (IC_{50}:7.2 μM)					
Embelin		* (IC_{50}:4.1 μM)				
LCL161	* (IC_{50}:10.23 μM)					
SM-164		***** (Ki:0.56 nM)	***** (Ki:0.31 nM)	**** (Ki:1.1 nM)		
YM155					***** (IC_{50}:0.54 nM)	
GDC-0152		*** (Kd:28 nM)	*** (Ki:17 nM)	*** (Ki:43 nM)		*** (Ki:14 nM)
Triptolide			*	*		

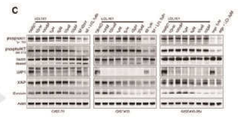
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3541 LCL161

LCL161 is a small molecular antagonist of the inhibitor of apoptosis (IAP) with IC50 value of 10.23 μM in Hep3B cells.



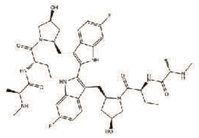
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



LCL161 downregulates XIAP and shows agonistic proapoptotic effects.

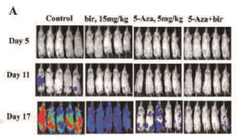
A4219 Birinapant (TL32711)

Birinapant is an antagonist of XIAP and cIAP1 with Kd value of 45 nM and <1 nM, respectively.



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

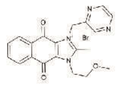
Product Citation:
Cell Death Differ. (2016)
PMID: 26891693



Antileukemia activity of birinapant in a NSG mouse model.

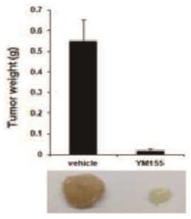
A4221 YM155

YM155 (Sepantronium Bromide) is a potent inhibitor of Survivin promoter activity with IC50 of 0.54 nM.



Size:5 mg,10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

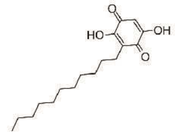
Product Citation:
Eur Rev Med Pharmacol Sci (2015)
PMID: 26125270



Anti-tumor effect of YM155 against pancreatic cancer in vivo.

A8235 Embelin

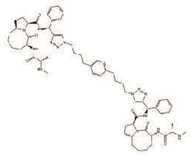
Embelin is an inhibitor of X-linked inhibitor of apoptosis (XIAP) with IC50 of 4.1 μM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8815 SM-164

SM-164 is a bivalent mimetic of Smac with Ki values of 0.31 nM, 1.1 nM and 0.56 nM for cIAP-1, cIAP-2 and XIAP, respectively.



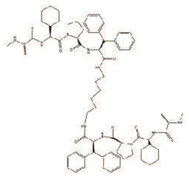
Size:5 mg,10 mg,25 mg,200 mg
Soluble in DMSO

Product Citation:
Cell Res. (2016) PMID: 27573174

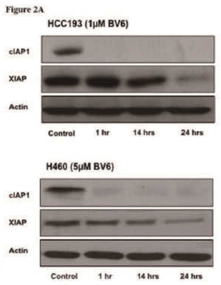
SM-164 inhibits AKT activation in HCC cells.

B4653 BV6

BV6 is a selective inhibitor of IAP family with IC50 value of 7.2 μM when tested with H460 cells.



Size:5 mg,25 mg,100 mg
Soluble in DMSO



BV6 reduced levels of cIAP1 and XIAP in both H460 and HCC193.

p53 Inhibitors / Activators

Potency Comparison

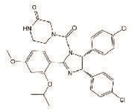
Inhibitors	p53	MDM2/p53	MDM2	HDM2	HDM2/p53	MDMX
JNJ-26854165 (Serdemetan)		*				
Nutlin-3	*	*** (IC_{50}:90 nM)				
Nutlin-3a chiral			*** (IC_{50}:0.09 μM)			
Pifithrin-α (PFTα)	*					
RG7388		*	*** (IC_{50}:30 nM)			
AMG232		**** (IC_{50}:9.1 nM)				
Cyclic Pifithrin-α hydrobromide	*					
HLI 373				*		
NVP-CGM097		*	*		*	
p53/MDM2 Set I		*	*			
SJ 172550						* (EC_{50}:2.3 μM)

Activators	p53	MDM2/p53	MDM2	HDM2	HDM2/p53	MDMX
JNJ-26854165 (Serdemetan)	*					
NSC 319726	**** (IC_{50}:8 nM)					
Pifithrin-μ	*					
PRIMA-1	*					
PRIMA-1MET	*					
RG7388	*					
RITA (NSC 652287)	*					
Tenovin-1	*					
Tenovin-3	*					

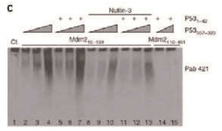
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3671 Nutlin-3a chiral

Nutlin-3 is a small-molecule inhibitor of mouse double minute 2 (MDM2) with IC50 value of 0.09 μM.



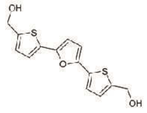
Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



Binding of the N-terminal domain of MDM2 is interrupted by Nutlin-3.

A4202 RITA (NSC 652287)

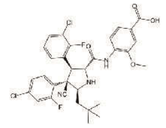
RITA (NSC 652287) is an inducer of both DNA-protein and DNA-DNA cross-links and also an inhibitor of MDM2-p53 interaction by targeting p53.



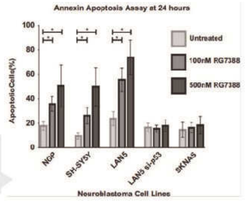
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A3763 RG7388

RG7388 is a second generation clinical MDM2 inhibitor with IC50 values of 6 nM and 0.03 μM in HTRF binding assays and MTT proliferation assays in human cancer cell lines.



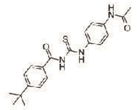
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM



Effect of RG7388 on p53 silenced neuroblastoma cells in vitro.

A4203 Tenovin-1

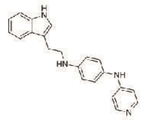
Tenovin-1 is an inhibitor of MDM2-mediated p53 degradation.



Size:25 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A4204 JNJ-26854165 (Serdemetan)

JNJ-26854165 (Serdemetan) is originally developed as an activator of p53, is now regarded as a novel oral HDM-2 ubiquitin ligase antagonist.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A4206 Pifithrin-α (PFTα)

Pifithrin-α is a synthetic, water-soluble and stable inhibitor of p53.

Size:5mg,10mg,25mg,50mg
Soluble in DMSO > 10 mM

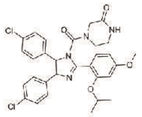
A4208 NSC 319726

NSC 319726 is a reactivator of mutant p53 with IC50 value of 8 nM.

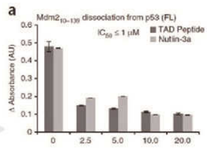
Size:5 mg,25 mg
Soluble in DMSO > 10 mM

A4228 Nutlin-3

Nutlin-3 is a potent and selective antagonist of MDM2 (RING finger-dependent ubiquitin protein ligase for itself and p53) with IC50 of 90 nM.



Size:5 mg,10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



Nutlin-3 disrupts p53's interaction with the N-terminal of Mdm2.

A4482 Pifithrin-μ

Pifithrin-μ is a potent inhibitor of p53 binding and p53-mediated apoptosis with Kd value of 0.82 mM in vitro.

Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A4483 PRIMA-1

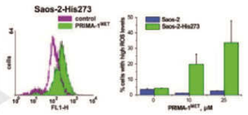
PRIMA-1 is an inhibitor of cell-permeable BAX.

Size:5 mg,10 mg,50 mg
Soluble to 100 mM in sterile water

A4484 PRIMA-1MET

PRIMA-1MET selectively restores the activity of mutant p53 in tumor cells.

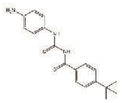
Size:10 mg,150 mg
Soluble in DMSO > 10 mM



Treatment of PRIMA-1 induces ROS in a dosage dependent manner.

A8567 Tenovin-3

Tenovin-3 is an inhibitor of MDM2-mediated p53 degradation.



Size:1 mg,5 mg,10 mg,25 mg
Soluble in DMSO

PKD Inhibitors

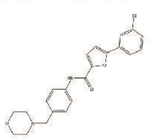
Inhibitors Selectivity

Inhibitors	PKD1	PKD2	PKD3
CRT 0066101	**** (IC_{50}:1 nM)	**** (IC_{50}:2.5 nM)	**** (IC_{50}:2 nM)
CID 2011756	* (IC_{50}:3.2 μM)	* (IC_{50}:0.6 μM)	* (IC_{50}:0.7 μM)
CID 755673	** (IC_{50}:182 nM)	** (IC_{50}:280 nM)	** (IC_{50}:227 nM)
kb NB 142-70	*** (IC_{50}:28.3 nM)	*** (IC_{50}:58.7 nM)	*** (IC_{50}:53.2 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A8223 CID 2011756

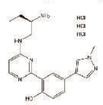
CID-2011756 is a novel and potent inhibitor of protein kinase D1 (PKD1) with a value of 50% inhibition concentration IC50 of 3.2 μM and it also exhibits pan-PKD inhibitory effects.



Size:5mg,10mg,50mg
Soluble in DMSO > 10 mM

A8679 CRT 0066101

CRT 0066101 is a potent PKD antagonist with IC50 values of 1, 2.5 and 2 nM for PKD1, PKD2, PKD3 respectively.



Size:10mg,100mg
Limited solubility

TNF-α Inhibitors

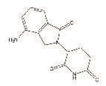
Potency Comparison

Inhibitors	TNF-α
Lenalidomide (CC-5013)	*** (IC_{50}:13 nM)
Necrostatin-1	** (EC_{50}:490 nM)
Pomalidomide (CC-4047)	*** (IC_{50}:13 nM)
Lenalidomide hydrochloride	*** (IC_{50}:13 nM)
Lenalidomide hemihydrate	*** (IC_{50}:13 nM)
Thalidomide	*
Celastrol	*
Necrostatin 2	*** (IC_{50}:50 nM)
Necrostatin 2 racemate	*** (IC_{50}:50 nM)
Necrostatin 2 S enantiomer	*** (IC_{50}:50 nM)
Bioymifi	*

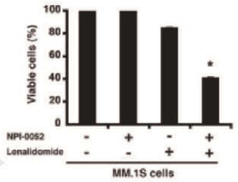
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4211 Lenalidomide (CC-5013)

Lenalidomide (CC-5013) is an inhibitor of TNF-α secretion with IC50 of 13 nM.



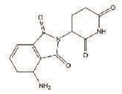
Size:50 mg,100 mg,250 mg,500 mg
Soluble in DMSO > 10 mM



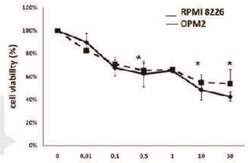
Combination of NPI-0052 and CC-5013 induces cell death.

A4212 Pomalidomide (CC-4047)

Pomalidomide is an inhibitor of LPS-induced TNF-α release with IC50 of 13 nM.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

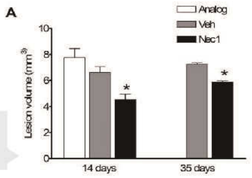


Pomalidomide reduces the viability of MM cell lines.

A4213 Necrostatin-1

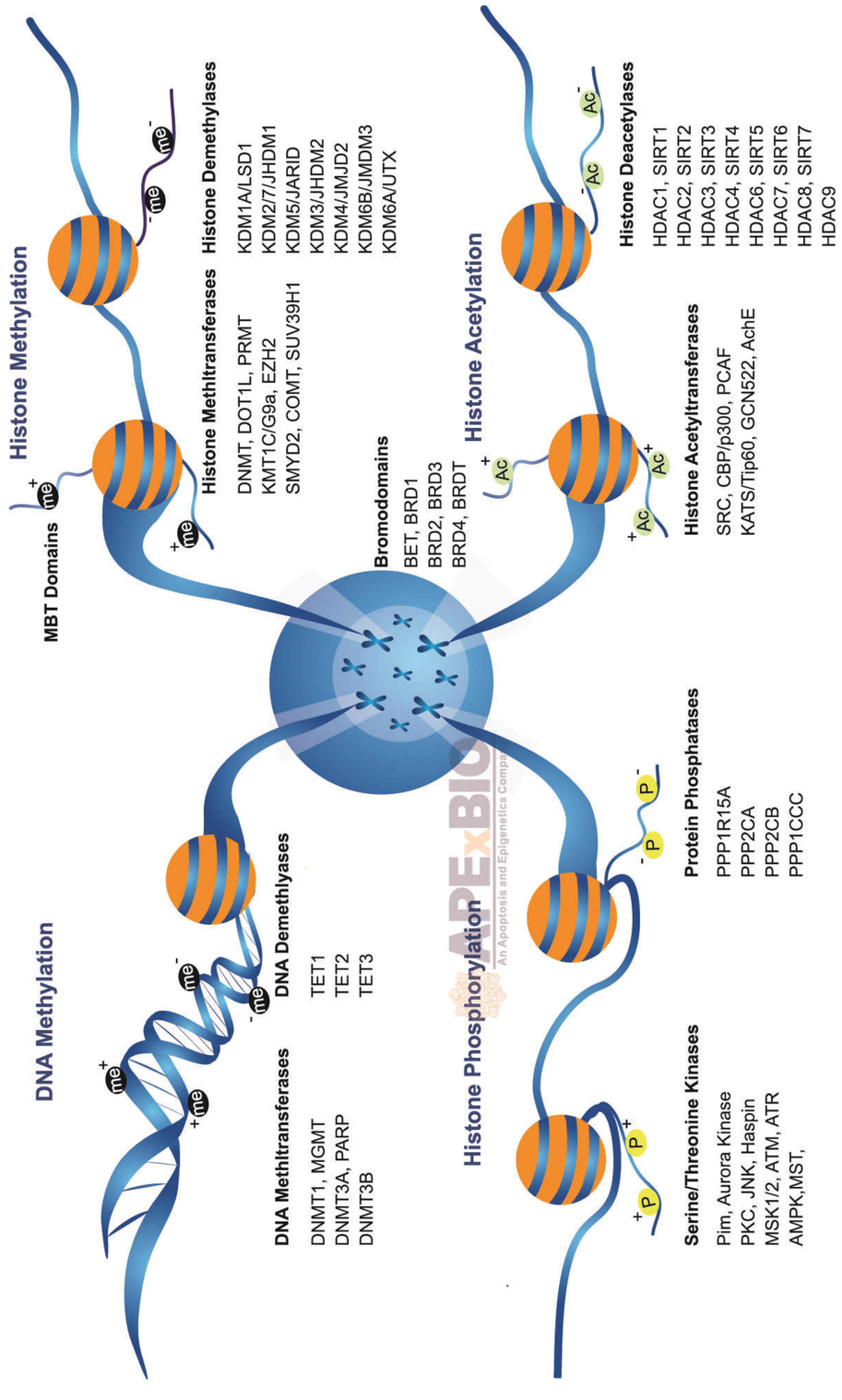
Necrostatin-1 is a specific inhibitor of RIP1 and inhibits TNF-α-induced necroptosis with an EC50 value of 490 nM.

Size:10 mg,100 mg
Soluble in DMSO > 10 mM



Brain lesion volume is reduced in Necrostatin-1 treated mice.

Epigenetics



Aurora Kinase Inhibitors/Activator

Potency Comparison

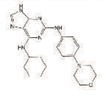
Inhibitors	Aurora A	Aurora B	Aurora C
Aurora A Inhibitor I	**** (IC_{50}:3.4 nM)		
MK-8745	***** (IC_{50}:0.6 nM)		
AMG-900	**** (IC_{50}:5 nM)	**** (IC_{50}:4 nM)	***** (IC_{50}:1 nM)
AT9283	**** (IC_{50}:3 nM)	**** (IC_{50}:3 nM)	
Barasertib (AZD1152-HQPA)		***** (IC_{50}:0.37 nM)	
CCT129202	*** (IC_{50}:42 nM)	** (IC_{50}:198 nM)	** (IC_{50}:227 nM)
CCT137690	*** (IC_{50}:15 nM)	*** (IC_{50}:25 nM)	*** (IC_{50}:19 nM)
ENMD-2076	*** (IC_{50}:14 nM)	*** (IC_{50}:14 nM)	
Hesperadin		** (IC_{50}:250 nM)	
MK-5108(VX-689)	***** (IC_{50}:0.064 nM)	*** (IC_{50}:14 nM)	*** (IC_{50}:12 nM)
MLN8237 (Alisertib)	**** (IC_{50}:1.2 nM)		
Reversine	** (IC_{50}:150 nM)	* (IC_{50}:500 nM)	** (IC_{50}:400 nM)
SNS-314 Mesylate	**** (IC_{50}:9 nM)	*** (IC_{50}:31 nM)	**** (IC_{50}:3 nM)
TAK-901	*** (IC_{50}:21 nM)	*** (IC_{50}:15 nM)	
VX-680 (MK-0457,Tozasertib)	***** (Ki:0.6 nM)	**** (Ki:4.6 nM)	*** (Ki:18 nM)
XL228	**** (IC_{50}:3 nM)		
ZM 447439	* (IC_{50}:1 μM)	*** (IC_{50}:50 nM)	** (IC_{50}:250 nM)

Activator	Aurora A	Aurora B	Aurora C
Anacardic acid	*		

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3760 Reversine

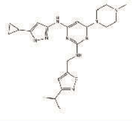
Reversine is a novel Aurora kinases inhibitor with IC50 values of 150, 500 and 400 nM for Aurora Kinase A, B and C respectively.



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO

A3939 XL228

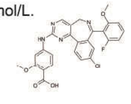
XL228 is a protein kinase inhibitor targeting IGF1R, the AURORA kinases, FGFR1-3, ABL and SRC family kinases with IC50 values of 3 and 5 nM for Aurora A Kinase and Ki, Abl respectively.



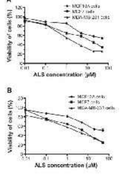
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO

A4110 MLN8237 (Alisertib)

MLN8237 is a potent small-molecule inhibitor of AAK with Ki of 0.43 nmol/L.



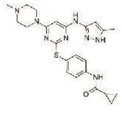
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



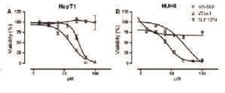
The cytotoxic effect of Alisertib on breast epithelial cells.

A4111 VX-680 (MK-0457,Tozasertib)

VX-680 is a potent inhibitor of pan-aurora kinase as well as other kinases including Src, GSK3β, Flt3, JAK2, BCR-Abl(wild type) and BCR-Abl(T315I mutant).



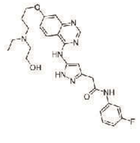
Size:50 mg,100 mg,250 mg
Soluble in DMSO > 10 mM



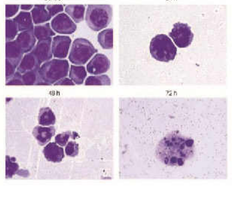
Inhibition of Aurora kinase A, MET and Wee1.

A4112 Barasertib (AZD1152-HQPA)

Barasertib is a potent aurora kinase inhibitor with Ki of 1369 nM, 0.36 nM, and 17.0 nM for AKB, ABK, and ACK, respectively.



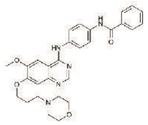
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



Morphological changes after Baraserti b-HQPA treatment.

A4113 ZM 447439

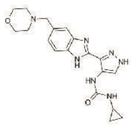
ZM 447439 is a selective inhibitor of Aurora B kinase with IC_{50} value of 50nM.



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A4117 AT9283

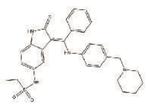
AT9283 is a potent inhibitor of Aurora with IC_{50} values of 3 nM, 3 nM, 1.1 nM, 1.2 nM and 4 nM for Aurora A, Aurora B, JAK3, JAK2 and c-Abl, respectively.



Size:2 mg,5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A4118 Hesperadin

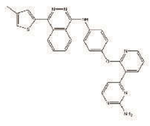
Hesperadin is a potent inhibitor of Aurora B with IC_{50} of 250 nM.



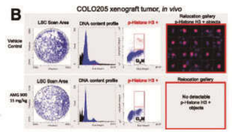
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

A4119 AMG-900

AMG900 is a highly sensitive and orally bioavailable inhibitor of Aurora Kinase with IC_{50} values of 5 nmol/L.



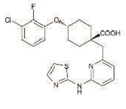
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



AMG 900 inhibits p-Histone H3 in COLO 205 tumor cells.

A4120 MK-5108 (VX-689)

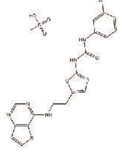
MK-5108 is a highly selective inhibitor of Aurora-A kinase with 0.064 nM.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

A4121 SNS-314 Mesylate

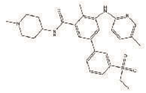
SNS-314 Mesylate is a potent and selective inhibitor of Aurora A, Aurora B and Aurora C with IC_{50} values of 9 nM, 31 nM, and 3 nM, respectively.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

A4124 TAK-901

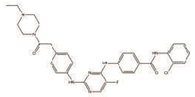
TAK-901 is a novel inhibitor of Aurora A and B with IC_{50} value of 21 nM and 15 nM, respectively.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

A4126 Aurora A Inhibitor I

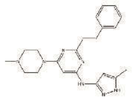
Aurora A Inhibitor I is a novel, potent, and selective inhibitor of Aurora A with IC_{50} value of 3.4 nM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A4130 ENMD-2076

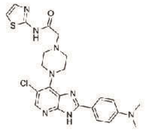
ENMD-2076 is a selective inhibitor of Aurora A and Flt3 with IC_{50} values of 14 nM and 1.86 nM, respectively.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

A4131 CCT129202

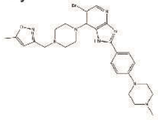
CCT129202 is an inhibitor of Aurora kinases with IC50 values of 42 nM, 198 nM and 227 nM for Aurora A, B and C, respectively.



Size:5 mg,10 mg,50 mg,200 mg
Limited solubility

A4132 CCT137690

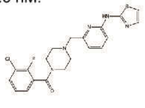
CCT137690 is a highly selective and orally bioavailable inhibitor of Aurora A, Aurora B and Aurora C with IC50 of 15 nM, 25 nM and 19 nM, respectively.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8807 MK-8745

MK-8745 is a potent and selective inhibitor of Aurora A with an IC50 value of 0.6 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

Bromodomain Inhibitors

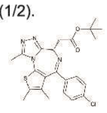
Potency Comparison

Inhibitors	BET	BRD1	BRD2	BRD3	BRD4	BRDT	CREBBP	EP300	BRPF1	L3MBTL3
(-)-JQ1					* (IC_{50}:10 μM)					
Bromodomain Inhibitor, (+)-JQ1					**** (IC_{50}:77 nM/33 nM)	*				
GSK 5959									*** (IC_{50}:80 nM)	
MS436		*	*		**** (Ki:＜0.085 μM)					
OTX-015			**** (EC_{50}:10-19 nM)	**** (EC_{50}:10-19 nM)	**** (EC_{50}:10-19 nM)					
PFI 4									**** (IC_{50}:7.1 nM)	
RVX-208	*** (IC_{50}:0.51 μM)									
SGC-CBP30					*		**** (IC_{50}:21 nM)	**** (IC_{50}:38 nM)		
UNC1215										**** (IC_{50}:40 nM)
UNC669										** (IC_{50}:3.1 μM)
SGC-CBP30					*		**** (IC_{50}:21 nM)	**** (IC_{50}:38 nM)		
GSK1324726A			**** (IC_{50}:41 nM)	**** (IC_{50}:31 nM)	**** (IC_{50}:22 nM)					
Bromosporine	*	*	*	*	*	*				

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1910 Bromodomain Inhibitor,(+)-JQ1

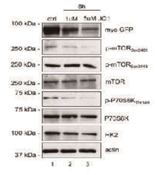
(+)-JQ1 is an inhibitor of BET bromodomain with IC50 of 77 nM/33 nM for BRD4(1/2).



Product Citation:
Nature.(2016). PMID: 27064903

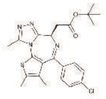
Regulation of p-mTOR and mTORC1 signalling by c-Myc.

Size:1 mg,5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



A8181 (-)-JQ1

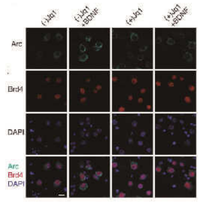
(-)-JQ-1, the stereoisomer(+)-JQ1, showed no significant interaction with any bromodomain with IC50 of ~50 and 90 nM.



Product Citation:
Nat Neurosci.(2015). PMID: 26301327

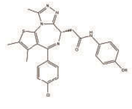
Brd4 regulates IEG transcription in neurons.

Size:5 mg,25mg,50 mg,100 mg
Soluble in DMSO



A3692 OTX-015

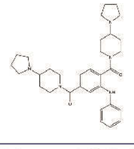
OTX-015 is a potent inhibitor of BRD2, BRD3, and BRD4 with IC50 values range from 92 to 112 nM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A3901 UNC1215

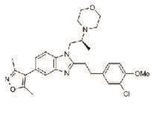
UNC1215 is a selective inhibitor of L3MBTL3 with IC50 value of 40 nM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A4491 SGC-CBP30

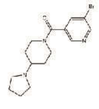
SGC-CBP 30 is a selective inhibitor of CREBBP and EP300 with IC50 value of 21 nM and 38 nM, respectively.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM
Product Citation:
FEBS J.(2016). PMID: 27007774

A8810 UNC669

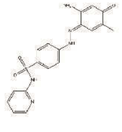
UNC 669 is a potent antagonist of L3MBTL1(IC50:4.2 μM) and L3MBTL3(IC50:3.1 μM).



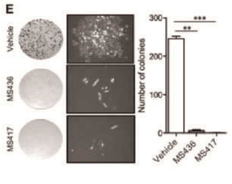
Size:10 mg,25 mg
Limited solubility

B1012 MS436

MS436 is a potent and selective small-molecule inhibitor of BRD4 with Ki values of ＜0.085 μM and 0.34 μM for BrD1 and BrD2, respectively.



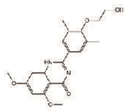
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



BRD inhibition by MS436 attenuates proliferation in vitro.

B1499 RVX-208

RVX-208 is a potent inhibitor of bromodomain with IC50 values of 0.51 and 87 μM for BD2 and BD1, respectively.



Size:5 mg,20 mg
Soluble in DMSO > 10 mM
Product Citation:
FEBS J.(2016). PMID: 27007774

DNA Methyltransferase Inhibitors

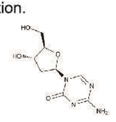
Potency Comparison

Inhibitors	DNMT	DNMT3B	MGMT
Decitabine	*		
Lomeguatrib			**** (IC_{50}:5 nM)
Nanaomycin A		** (IC_{50}:500 nM)	
RG 108	** (IC_{50}:600 nM)		
Zebularine	*		
Thioguanine	*		
5-Azacytidine	*		
SGI-110	*		

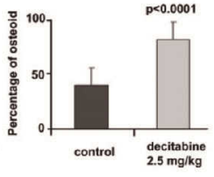
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1906 Decitabine (NSC127716, 5AZA-CdR)

Decitabine is a kind of deoxycytidine analog and an inducer of cellular differentiation.



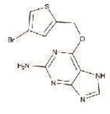
Size:10 mg,50 mg
Soluble in DMSO > 10 mM



Induction of differentiation by decitabine of U2OS in vivo.

A1912 Lomeguatrib

Lomeguatrib is an O6-methylguanine-DNA-methyl-transferase(MGMT) inhibitor with IC50 value of about 6 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

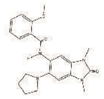
B4916 GSK 5959

GSK 5959 is a potent and selective BRPF1 bromodomain inhibitor with IC50 value of 80nM.

Size:10 mg,50 mg
Soluble in 10 mM DMSO

B5973 PFI 4

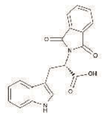
PFI 4 is a cell permeable, potent and selective inhibitor of BRPF1 Bromodomain with pIC50 and pKd values of 7.1 and 8.0.



Size:10 mg,50 mg
Soluble in DMSO

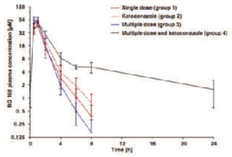
A1913 RG 108

RG108 is a DNA methyltransferase(DMNT) inhibitor that enhanced reprogramming of OK-transduced MEFs in the presence of BIX.



Size:10 mg,25 mg
Soluble in DMSO > 10 mM

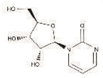
Product Citation:
Basic Clin Pharmacol Toxicol. (2016) PMID: 26525153



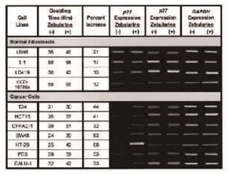
Plasma concentration curves of RG 108 in rats.

A1915 Zebularine

Zebularine, a chemically stable cytidine analog containing a 2-(1H)-pyridimidinone ring, is an effective DNA methylation inhibitor.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

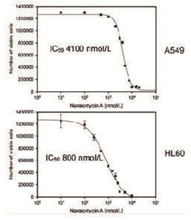


Zebularine retarded the growth of all human cancer cell lines.

A8191 Nanaomycin A

Nanaomycin A is a selective inhibitor of DNA methyltransferase 3B (DNMT3B) with IC50 value of 500 nM.

Size:5 mg,25 mg
Soluble in Methanol



Treatment of Nanaomycin A affects cell viability.

HDAC Inhibitors

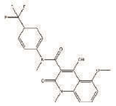
Potency Comparison

Inhibitors	pan-HDAC	HDAC1	HDAC2	HDAC3	HDAC4	HDAC5	HDAC6	HDAC7	HDAC8	HDAC9	HDAC10	HDAC11
2-hexyl-4-Pentynoic Acid	* (IC_{50}:13 μM)											
BML-210	* (IC_{50}:87 μM)											
Nexturastat A							**** (IC_{50}:5 nM)					
Suberohydro-xamic Acid		** (IC_{50}:250 nM)		** (IC_{50}:300 nM)								
UF 010		** (IC_{50}:500 nM)	*** (IC_{50}:100 nM)	**** (IC_{50}:60 nM)			* (IC_{50}:9.1 μM)		* (IC_{50}:1.5 μM)		* (IC_{50}:15.3 μM)	* (IC_{50}:44.5 μM)
AR-42	*** (IC_{50}:30 nM)	*	*	*	*	*	*	*	*	*	*	*
Belinostat	*** (IC_{50}:27 nM)	*	*	*	*	*	*	*	*	*	*	*
CAY10603		** (IC_{50}:271 nM)					***** (IC_{50}:2 pM)					
CI994		** (IC_{50}:0.57 μM)		*								
CUDC-101	**** (IC_{50}:4.4 nM)	**** (IC_{50}:4.5 nM)		**** (IC_{50}:9.1 nM)		*** (IC_{50}:11.4 nM)	**** (IC_{50}:5.1nM)					
CUDC-907		**** (IC_{50}:1.7 nM)	**** (IC_{50}:5 nM)	**** (IC_{50}:1.8 nM)							**** (IC_{50}:2.8 nM)	
Droxinostat		* (IC_{50}>20 μM)	* (IC_{50}: >20 μM)	* (IC_{50}:16.9 μM)			* (IC_{50}:2.47 μM)		* (IC_{50}:1.46 μM)			
Entinostat		** (IC_{50}:0.51 μM)		* (IC_{50}:1.7 μM)								
ITF2357	**** (IC_{50}:7.5-16 nM)											
JNJ-26481585		***** (IC_{50}:0.11 nM)	***** (IC_{50}:0.33 nM)		***** (IC_{50}:0.64 nM)						***** (IC_{50}:0.46 nM)	***** (IC_{50}:0.37 nM)
KD 5170		*** (IC_{50}:20 nM)	* (IC_{50}:2 μM)	*** (IC_{50}:75 nM)	*** (IC_{50}:26 nM)		*** (IC_{50}:14 nM)					
LAQ824	*** (IC_{50}:32 nM)											
M344	** (IC_{50}:100 nM)											
MC1568					*	*	*	*		*	*	
Mocetinostat		** (IC_{50}:0.15 μM)	** (IC_{50}:0.29 μM)	* (IC_{50}:1.66 μM)								
NCH 51	*											
NSC 3852	*											
Panobinostat	*	*	*	*	*	*	*	*	*	*	*	*
Parthenolide		*										
PCI-24781		**** (Ki:7 nM)	*** (Ki:19 nM)	**** (Ki:8.2 nM)			*** (Ki:17 nM)		** (Ki:280 nM)		*** (Ki:24 nM)	
PCI-34051									**** (IC_{50}:10 nM)			
Pracinostat		*** (IC_{50}:49 nM)		*** (IC_{50}:43 nM)	*** (IC_{50}:56 nM)	*** (IC_{50}:47 nM)				*** (IC_{50}:70 nM)	*** (IC_{50}:40 nM)	
RGFP966				*** (IC_{50}:80 nM)								
Rocilinostat							**** (IC_{50}:5 nM)					
Romidepsin			*** (IC_{50}:36 nM)	*** (IC_{50}:47 nM)								
Santacruza-mate A			***** (IC_{50}:0.112 nM)				** (Ki:433 nM)					
Scriptaid		** (IC_{50}:0.6 μM)		** (IC_{50}:0.6 μM)					* (IC_{50}:1 μM)			
Tasquinimod					*							
TC-H 106		** (IC_{50}:150 nM)	** (IC_{50}:760 nM)	** (IC_{50}:370 nM)					* (IC_{50}:5 μM)			
Trichostatin A	**** (IC_{50}:1.8 nM)											
Tubastatin A HCl							*** (IC_{50}:15 nM)		** (IC_{50}:854 nM)			
Valproic acid		* (IC_{50}:0.4 mM)										
Valproic acid sodium salt	* (IC_{50}:0.4 mM)											
Vorinostat	**** (IC_{50}:10 nM)	*	*	*	*	*	*	*	*	*	*	*

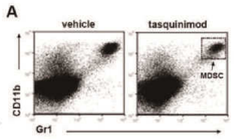
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3860 Tasquinimod

Tasquinimod is an orally administered quinoline-3-carboxamide with potent antiangiogenic and antitumorigenic ability that has shown promise in the treatment of advanced prostate cancers.



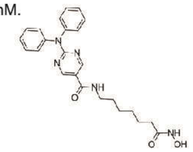
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



Tasquinimod modulates MDSC populations in the B16-h5T4 tumor model.

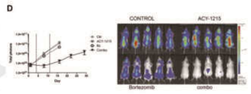
A4083 Rocilinostat (ACY-1215)

Rocilinostat(ACY-1215) is a selective inhibitor of HDAC6 with IC50 of 5 nM.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

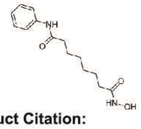
Product Citation:
Sci Rep. (2015) PMID: 26166158



ACY-1215/bortezomib combination induces anti-MM activity in vivo.

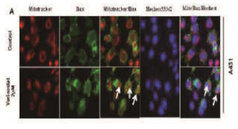
A4084 Vorinostat (SAHA, MK0683)

Vorinostat(suberoylanilide hydroxamic acid, SAHA) is an inhibitor of HDAC with IC50 of ~10 nM.



Size:500 mg
Soluble in DMSO > 10 mM

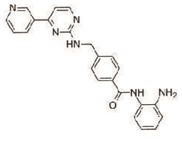
Product Citation:
Sci Rep. (2015) PMID: 26166158



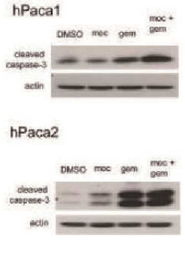
SAHA persuads Epigenetics by influencing translocation of Bax.

A4089 Mocetinostat (MGCD0103, MG0103)

Mocetinostat(MGCD0103) is a potent inhibitor of HDAC with most potency for HDAC1 with IC50 of 0.15 μM, 2- to 10- fold selectivity against HDAC2, 3, and 11, and no activity to HDAC4, 5, 6, 7, and 8.



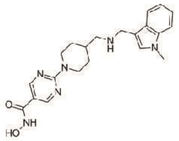
Size:5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM



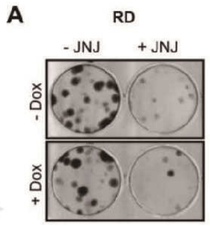
Mocetinostat sensitizes to gemcitabine in vitro.

A4090 JNJ-26481585

Quisinostat(JNJ-26481585) is a novel second-generation inhibitor of HDAC with highest potency for HDAC1 with IC50 of 0.11 nM.



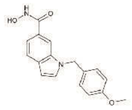
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



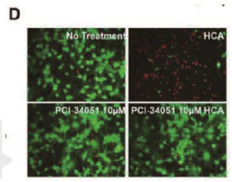
Quisinostat/Doxorubicin cotreatment reduces tumor growth in vivo.

A4091 PCI-34051

PCI-34051 is a potent and specific inhibitor of HDAC8 with an IC50 value of 10 nM.



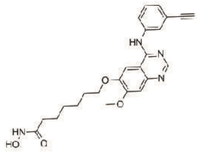
Size:10 mg, 100 mg
Soluble in DMSO > 10 mM



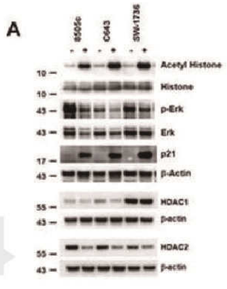
PCI-34051 protects primary immature neurons.

A4092 CUDC-101

CUDC-101 is a potent inhibitor of HDAC, EGFR and HER2 with IC50 values of 4.4 nM, 2.4 nM, and 15.7 nM, respectively.



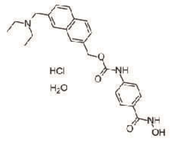
Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



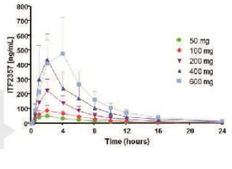
CUDC-101 inhibits HDACs and MAPK in ATC cells.

A4093 ITF2357 (Givinostat)

ITF2357 (Givinostatis) a potent inhibitor of HDAC for maize HD2, HD1B and HD1A with IC50 of 10 nM, 7.5 nM and 16 nM, respectively.



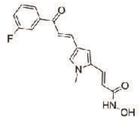
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



Pharmacokinetics of ITF2357 in healthy male subjects.

A4094 MC1568

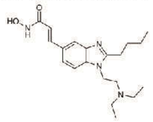
MC1568 is a selective inhibitor of HDAC for maize HD1-A with IC50 of 100 nM. It is 34-fold more selective for HD1-A than HD1-B.



Size:10 mg,25 mg
Soluble in DMSO > 10 mM
Product Citation:
J Biol Chem(2016) PMID: 26912657

A4095 Pracinostat (SB939)

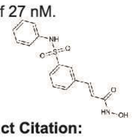
Pracinostat (SB939) is a potent inhibitor of HDAC with IC50 of 40-140 nM with exception for HDAC6.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

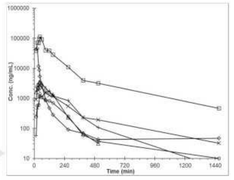
A4096 Belinostat (PXD101)

Belinostat (PXD101) is a novel inhibitor of pan-HDAC with an IC50 value of 27 nM.



Size:10 mg,50 mg,100 mg,200 mg
Soluble in DMSO > 10 mM

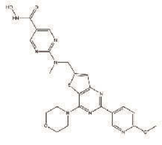
Product Citation:
Nat Chem Biol. (2016)
PMID: 27454933



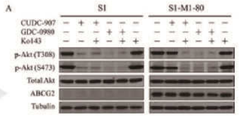
Plasma concentrations of PXD101 in a patient.

A4097 CUDC-907

CUDC-907 is a dual inhibitor of PI3K and HDAC with IC50 values of 19 nM, 1.7 nM, 5 nM, 1.8 nM and 2.8 nM for PI3Kα, HDAC1, 2, 3 and 10, respectively.



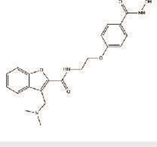
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



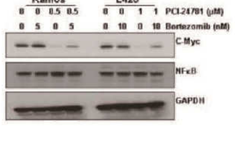
CUDC-907 inhibits PI3K signaling and HDAC activity in S1 cells.

A4098 PCI-24781 (CRA-024781)

PCI-24781 is an inhibitor of HDACs with Ki values of 7 nM, 8.2 nM, 17 nM and 19 nM for HDAC1, HDAC3/SMRT, HDAC6 and HDAC2, respectively.



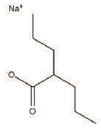
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



Effect of PCI-24781 on NFκB mRNA and protein.

A4099 Valproic acid sodium salt (Sodium valproate)

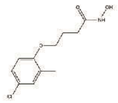
Valproic acid (VPA) is a histone deacetylase inhibitor with IC50 value of 0.4 mM.



Size:5 mg,100 mg
Soluble in DMSO > 10 mM

A4100 Droxinostat

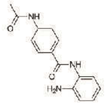
Droxinostat is a selective inhibitor of HDAC with IC50 values of 2.47 μM and 1.46 μM for HDACs 6 and 8, respectively.



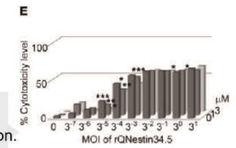
Size:5mg,10mg,25mg
Soluble in DMSO > 10 mM

A4102 CI994 (Tacedinaline)

CI-994 (Tacedinaline),an anti-cancer drug, is an inhibitor of HDAC1 with IC50 of 0.57 μM and causes G1 cell cycle arrest.



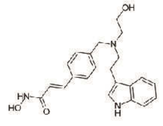
Size:10 mg,50 mg
Soluble in DMSO > 10 mM



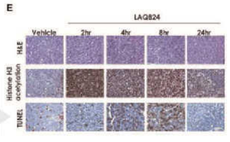
CI-994 improves HSV-1–mediated gene expression and oHSV replication.

A4103 LAQ824 (NVP-LAQ824,Dacinostat)

LAQ824 is a novel inhibitor of HDAC with IC50 value of 32 nM.



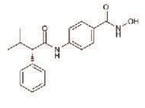
Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



LAQ824-induced Epigenetics didn't require the death receptor pathway.

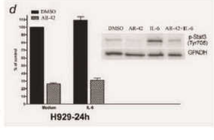
A4104 AR-42 (OSU-HDAC42)

AR-42 is a novel and potent inhibitor of HDAC with IC50 of 30 nM.



Size:2mg,5mg,10mg,50mg
Soluble in DMSO > 10 mM

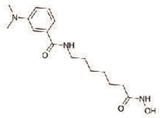
Product Citation:
Epigenomics (2015) PMID: 26111034



AR-42 downregulates gp130 and reduces p-STAT3 in MM cells.

A4105 M344

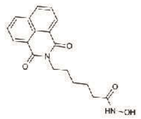
M344 is a potent inhibitor of HDAC with IC50 value of 100 nM and enable the induction of cell differentiation.



Size:5 mg,50 mg
Soluble in DMSO > 10 mM

A4106 Scriptaid

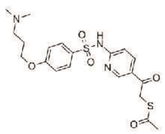
Scriptaid is a novel inhibitor of HDAC with IC50 value of 0.6 μM for HDAC1 and HDAC3 and 1μM for HDAC8.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A4493 KD 5170

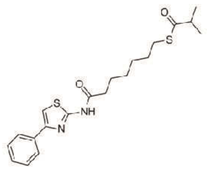
KD 5170 is a novel inhibitor of histone deacetylase with IC50 value of 0.045 μM.



Size:10 mg
Soluble in DMSO > 10 mM

A4495 NCH 51

NCH 51 is a potent and novel inhibitor of histone deacetylase.



Size:10 mg, 50 mg
Soluble in DMSO > 10 mM

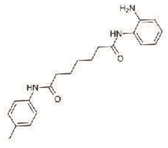
A4496 NSC 3852

NSC 3852 is a potent inhibitor of histone deacetylase.

Size:25 mg, 50 mg
Soluble in DMSO > 10 mM

A4499 TC-H 106

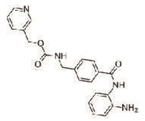
TC-H 106 is an inhibitor of Class I Histone Deacetylase with IC50 values of 150, 760, 370 and 5000 nM for HDAC1, HDAC2, HDAC3 and HDAC8, respectively.



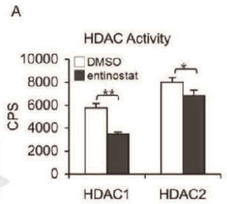
Size:5 mg,10 mg,50mg,100mg
Soluble in DMSO > 10 mM

A8171 Entinostat (MS-275,SNDX-275)

Entinostat (MS-275) is a strong inhibitor of HDAC1 and HDAC3 with IC50 of 0.51 μM and 1.7 μM, compared with HDACs 4, 6, 8, and 10.



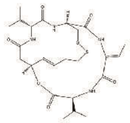
Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



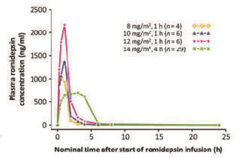
Effect of entinostat on deacetylation of histones H3 and H4.

A8173 Romidepsin (FK228, depsipeptide)

Romidepsin(FK228, depsipeptide) is a potent and selective inhibitor of class I histone deacetylases(HDACs) with IC50 values of 36, 47, 510 and 14,000 nM for HDAC1, HDAC2, HDAC4 and HDAC6, respectively.



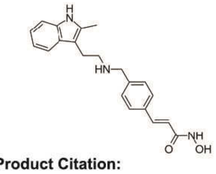
Size:1 mg,5 mg
Soluble in DMSO > 10 mM



Median plasma romidepsin concentration versus time.

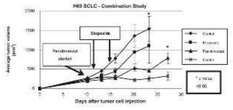
A8178 Panobinostat (LBH589)

Panobinostat (LBH589) is a novel broad-spectrum inhibitor of HDAC with IC50 of 5 nM.



Size:10 mg,50 mg,200 mg,500 mg
Soluble in DMSO > 10 mM

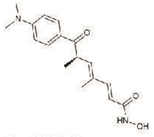
Product Citation:
PLoS Genet. (2016)
PMID: 27233051



LBH589/etoposide combination enhances tumor inhibition effect.

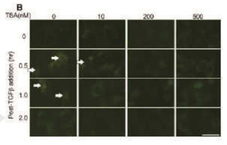
A8183 Trichostatin A (TSA)

Trichostatin A (TSA) is a potent inhibitor of histone deacetylase(HDAC).



Size:1 mg,5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

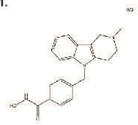
Product Citation:
Antiviral Res. 2016 PMID: 27185623



Effect of TSA on expression of TGFβ1-related signal transduction.

A8547 Tubastatin A HCl

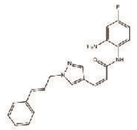
Tubastatin A HCl is a potent and selective inhibitor of HDAC6 with IC50 of 15 nM.



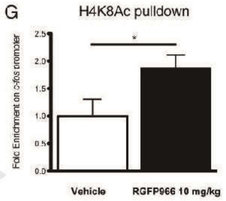
Size:10 mg,50 mg,100 mg,200 mg
Soluble in DMSO > 10 mM

A8803 RGFP966

RGFP966 is a specific inhibitor of HDAC3 with an IC50 value of 0.08 μM.



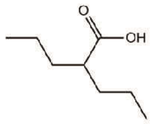
Size:5 mg,25 mg,100 mg,200 mg
Soluble in DMSO > 10 mM



RGFP966 promotes histone acetylation and gene expression.

B1251 Valproic acid

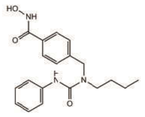
Valproic acid is an inhibitor of HDAC1 with IC50 value of 0.4 mM.



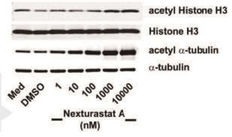
Size:5 g, 10 g
Soluble in DMSO

B3704 Nexturastat A

Nexturastat A is a selective inhibitor of histone deacetylase 6(HDAC6) with IC50 value of 5.2 nM.



Size:1 mg,5 mg
Soluble in DMSO > 10 mM



HDAC62 substrate selectivity of Nexturastat A.

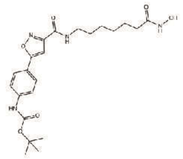
B4794 Santacruzamate A(CAY10683)

Santacruzamate A(CAY10683) is a potent and selective inhibitor of histone deacetylase with IC50 values of 0.112 and 433 nM for HDAC2 and HDAC6, respectively.

Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B4856 CAY10603

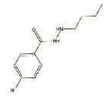
CAY10603 is a potent and selective inhibitor of HDAC6 with IC50 value of 2 pM, >200-fold selectivity over other HDACs.



Size:5 mg,25 mg
Soluble in DMSO

B5967 UF 010

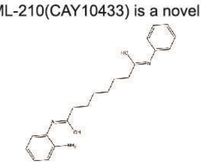
UF 010 is a novel and selective class I HDAC inhibitor with IC50 values of 0.5, 0.1, 0.06, 1.5, 9.1, 15.3 and 44.5 μM for HDAC1, 2, 3, 8, 6, 10 and 11.



Size:10 mg,50 mg
Soluble in DMSO

B5968 BML-210 (CAY10433)

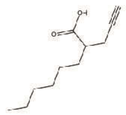
BML-210(CAY10433) is a novel HDAC inhibitor with IC50 value of 87 μM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO

B5969 2-hexyl-4-Pentynoic Acid

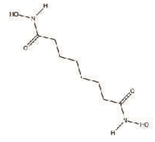
2-hexyl-4-Pentynoic Acid is a potent and robust inhibitor of HDAC with IC50 value of 13 μM.



Size:250 mg,1 g
Soluble in DMSO

B5976 Suberohydroxamic Acid

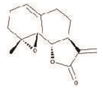
Suberohydroxamic Acid(Suberoyl bis-hydroxamic acid, SBHA) is an inhibitor of HDAC with IC50 values of 0.25 and 0.30 μM for HDAC1 and HDAC3, respectively.



Size:500 mg,1 g
Soluble in DMSO

N1315 Parthenolide

Parthenolide is a sesquiterpene lactone and active principle of feverfew (Chrysanthemum parthenium).



Size:50 mg,100mg,250 mg
Soluble in DMSO > 10 mM

HIF Inhibitors/Activator

Potency Comparison

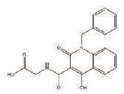
Inhibitors	HIF	HIF-PH	HIF-1α PHD2	HIF-1	HIF-1α
DMOG		*			
KC7F2					*
FG-4592(ASP1517)		*			
PX 12**					* (IC_{50}:7.2 nM)
Chetomin				*	
IOX2(Glycine)			*** (IC_{50}:21 nM)		
BAY 87-2243				*	

Activator	HIF	HIF-PH	HIF-1α PHD2	HIF-1	HIF-1α
ML 228	*				

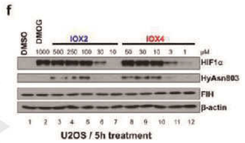
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4189 IOX2 (Glycine)

IOX2 is a potent inhibitor of HIF-1α prolyl hydroxylase-2(PHD2) with IC50 of 21 nM.



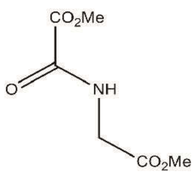
Size:10 mg,50 mg
Soluble in DMSO > 10 mM



Cellular inhibition of HIF prolyl-hydroxylases.

A4506 DMOG

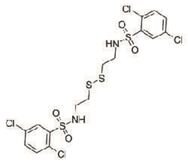
DMOG is a cell-permeable, competitive inhibitor of HIF-PH.



Size:50 mg,100mg,200mg
Soluble in DMSO > 10 mM

A4507 KC7F2

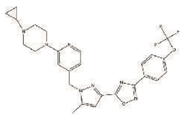
KC7F2 is a novel inhibitor of HIF-1α with IC50 value of 20 μM.



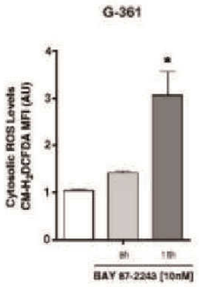
Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B1115 BAY 87-2243

BAY 87-2243 is a selective inhibitor of HIF-1 induced gene activation.



Size:10 mg,50 mg
Limited solubility



BAY 87-2243-mediated inhibition leads to ROS-mediated cell death.

Histone Demethylase Inhibitors

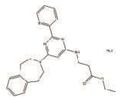
Potency Comparison

Inhibitors	KDM1A	KDM2/7	KDM5	KDM3	KDM4	KDM6B	KDM6A
2,4-Pyridinedicarboxylic Acid			* (IC_{50}:3 μM)		* (IC_{50}:1.4 μM)		*
GSK J2						* (IC_{50}: >100 μM)	
GSK J4 free base						* (IC_{50}: >100 μM)	
GSK J4 HCl						*** (IC_{50}:60 nM)	**** (IC_{50}:60 nM)
GSK-LSD1 2HCl	*** (IC_{50}:16 nM)						
SP2509	*** (IC_{50}:13 nM)						
CBB1003	* (IC_{50}:10.54 μM)						
CBB1007							
GSK J1			** (IC_{50}:170, 550, 6,800 nM)			*** (IC_{50}:28 nM)	*** (IC_{50}:53 μM)
IOX 1				** (IC_{50}:0.12,0.17, 0.2, 0.3, 0.6,1 μM)			
ML324					** (IC_{50}:920 nM)		
OG-L002	*** (IC_{50}:20 nM)						
RN 1 dihydrochloride	*** (IC_{50}:70 nM)						
TC-E 5002		** (IC_{50}:0.2, 1.2, 6.8 μM)					
Tranylcypromine (2-PCPA) HCl	* (IC_{50}:5.27 μM)						
Tranylcypromine hydrochloride	*** (LSD1/BHC110)						

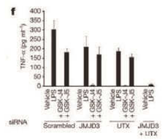
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4190 GSK J4 HCl

GSK J4 is a potent cell-permeable inhibitor of H3K27 demethylase JMJD3 with IC50 value > 50 μM in vitro.



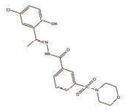
Size:10 mg,50 mg
Soluble in DMSO > 10 mM



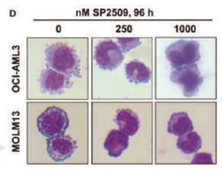
Inhibition effect of GSK-J4 on JMJD3.

B4894 SP2509

SP2509 is a novel Lysine specific demethylase 1(LSD1) antagonist (IC50:13nM) with no effect on MAO-A and MAO-B.



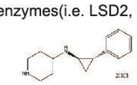
Size:5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM



SP2509 induces morphologic differentiation of AML cells.

B4983 GSK-LSD1 2HCl

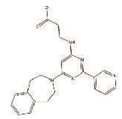
GSK-LSD1 2HCl is an irreversible, and selective LSD1 inhibitor with IC50 of 16 nM, > 1000 fold selective over other closely related FAD utilizing enzymes(i.e. LSD2, MAO-A, MAO-B).



Size:5 mg,25 mg,100 mg
Soluble in DMSO

B5685 GSK J2

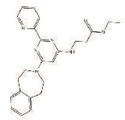
GSK J2 is an inactive control for GSK-J1 with IC50 > 100 μM for inhibition of JMJD3.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B5959 GSK J4 free base

GSK J4 free base is a histone lysine demethylase (KDM) inhibitor which blocks demethylation of histone H3K27.



Size:10mg,50mg
Soluble in DMSO

B5972 2,4-Pyridinedicarboxylic Acid

2,4-Pyridinedicarboxylic Acid(2,4-PDCA) is an inhibitor of histone lysine-specific demethylases that targets on JMJD2A(KDM4A), KDM4C, KDM4E(IC50, 1.4 μM), KDM5B(IC50, 3 μM), KDM6A and other 2-oxogynases.

Size:5g
Soluble in DMSO

B7514 Tranylcypromine hydrochloride

Tranylcypromine hydrochloride is an irreversible monoamine oxidase (MAO) inhibitor.

Size:50mg
Soluble in DMSO > 10 mM

Histone Methyltransferase Inhibitors

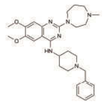
Potency Comparison

Inhibitors	EZH1	EZH2	DOT1L	MLL	G9a	GLP	SETD7	PRMT5	DNMT1
3-Deazaneplanocin A (DZNep) hydrochloride	*								
BIX 01294					* (IC_{50}:1.7 μM)	*			
EPZ004777			***** (IC_{50}:0.4 nM)						
EPZ005687		*** (Ki:24 nM)							
EPZ015666								**** (IC_{50}:5 nM)	
EPZ5676			***** (IC_{50}:0.8 nM)						
EPZ-6438		*** (IC_{50}:11 nM)							
PFI-2							**** (IC_{50}:2 nM)		
SGC 0946			***** (IC_{50}:0.3 nM)						
SGI-1027									* (IC_{50}:6 μM)
UNC 0631					**** (IC_{50}:6 nM)	*** (IC_{50}:15nM)			
UNC0638					*** (IC_{50}: <15 nM)	*** (IC_{50}: 19 nM)			
WDR5 0103				** (Kd:450 nM)					

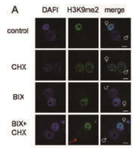
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1909 BIX 01294

BIX 01294 is an inhibitor of G9a-like protein and G9a histone lysine methyltransferase with IC50 value of 0.7 and 1.7 μM, respectively.



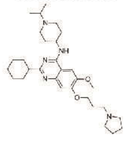
Size:5 mg,25 mg
Soluble in DMSO > 10 mM



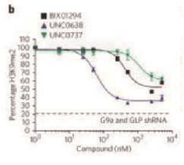
The influence of BIX 01294 on H3K9me2.

A1914 UNC0638

UNC0638 is a potent and selective inhibitor of G9a and GLP with IC50 values of < 15 nM and 19 ± 1 nM, respectively.



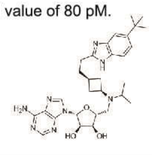
Size:5 mg,10 mg, 50 mg
Soluble in DMSO > 10 mM



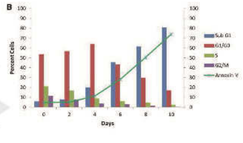
UNC0638 inhibits cellular H3K9 dimethylation.

A4166 EPZ5676

EPZ5676 is a potent and selective inhibitor of DOT1L methyltransferase with Ki value of 80 pM.



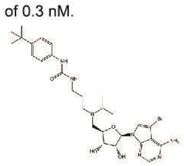
Size:10 mg, 50 mg
Soluble in DMSO > 10 mM



Potent inhibition of DOT1L as treatment of MLL-fusion leukemia

A4167 SGC 0946

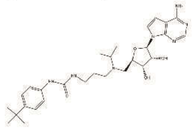
SGC 0946 is a potent inhibitor of DOT1L methyltransferase with IC50 value of 0.3 nM.



Size:5 mg,10 mg, 50 mg
Soluble in DMSO > 10 mM

A4170 EPZ004777

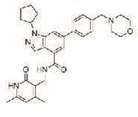
EPZ004777 is a specific small-molecule H3K79 methyltransferase DOT1L inhibitor that potently inhibits DOT1L in a radionuclide homogeneous assay with IC50 value of 400 pM.



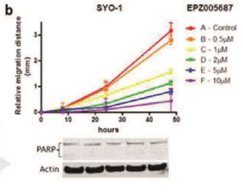
Size:5 mg, 50 mg
Soluble in DMSO > 10 mM

A4171 EPZ005687

EPZ005687 is a potent and selective inhibitor of EZH2 with Ki of 24 nM, 50-fold selectivity against EZH1 and 500-fold selectivity against 15 other protein methyltransferases.



Size:5 mg,25 mg
Limited solubility

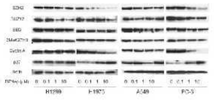


EPZ005687 inhibits synovial sarcoma proliferation and migration.

A8182 3-Deazaneplanocin A (DZNep) hydrochloride

3-Deazaneplanocin A(DZNep) hydrochloride is a selective inhibitor of ENZ2 inhibitor with IC50 value of 0.08-0.24 μM.

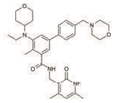
Size:1 mg,5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM



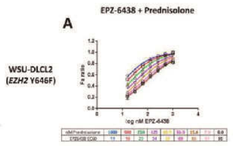
Western blot analysis of NSCLC cells.

A8221 EPZ-6438

EPZ-6438 is a potent and selective inhibitor of EZH2 with Ki and IC50 values of 2.5 nM and 11 nM, respectively.



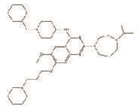
Size:5 mg,20 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



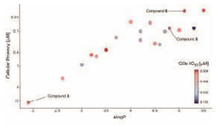
Glucocorticoid agonists enhance potency of EPZ-6438.

B1127 UNC 0631

UNC 0631 is a potent inhibitor of Protein lysine methyltransferase G9a (also known as KMT1C or EHMT2) with the IC50 value of 4 nM.



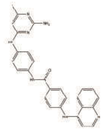
Size:5 mg, 25 mg,100 mg
Soluble in DMSO > 10 mM



Cellular potency of UNC 0631 increases as lipophilicity increases.

B1622 SGI-1027

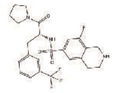
SGI-1027 is an inhibitor of DNMT with IC50 values of 12.5μM, 8μM and 7.5μM for DNMT1, DNMT3A and DNMT3B, respectively.



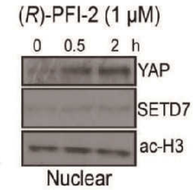
Size:10 mg,100 mg
Soluble in DMSO > 10 mM

B4875 PFI-2

PFI-2 is a potent and selective inhibitor of SETD7 methyltransferase with IC50 value of 2.0 nM.



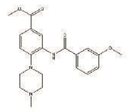
Size:5 mg, 25 mg,50 mg
Soluble in DMSO > 10 mM



Inhibition of Setd7 affects YAP in MEFs and MCF7 cells.

B4949 WDR5 0103

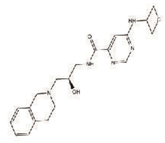
WDR5 0103 is a WD repeat-containing protein 5(WDR5) antagonist.



Size:10 mg, 50 mg
Soluble in DMSO > 10 mM

B4989 EPZ015666

EPZ015666 is a potent, selective and orally bioavailable PRMT5 inhibitor with Ki of 5 nM, >20,000-fold selectivity over other PMTs.



Size:5 mg,25 mg
Soluble in DMSO

JAK Inhibitors

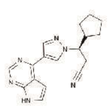
Potency Comparison

Inhibitors	Pan-JAK	JAK1	JAK2	JAK3	Tyk2
1,2,3,4,5,6-Hexabromocyclohexane			*		
Baricitinib (LY3009104, INCB028050)		**** (IC_{50}:5.9 nM)	**** (IC_{50}:5.7 nM)	** (IC_{50}:>400 nM)	*** (IC_{50}:53 nM)
Cerdulatinib	*				
Cucurbitacin I			*		
CYT387		*** (IC_{50}:11 nM)	*** (IC_{50}:18 nM)	** (IC_{50}:155 nM)	*** (IC_{50}:17 nM)
LY2784544			**** (IC_{50}:3 nM)		
NVP-BSK805		*** (IC_{50}:31.63 nM)	***** (IC_{50}:0.5 nM)	*** (IC_{50}:18.68 nM)	*** (IC_{50}:10.76 nM)
Pyridone 6		*** (IC_{50}:15 nM)	***** (IC_{50}:1 nM)	**** (IC_{50}:5 nM)	***** (IC_{50}:1 nM)
Ruxolitinib (INCB018424)		**** (IC_{50}:3.3 nM)	**** (IC_{50}:2.8 nM)		
Ruxolitinib phosphate					
TG101348 (SAR302503)			**** (IC_{50}:3 nM)		
Tofacitinib (CP-690550) Citrate		** (IC_{50}:112 nM)	*** (IC_{50}:20 nM)	***** (IC_{50}:1 nM)	
WP1066			* (IC_{50}:2.3 μM)		
ZM 449829		* (pIC_{50}:4.7)		** (pIC_{50}:6.8)	
ZM 39923 HCl		* (pIC_{50}:4.4)		**** (pIC_{50}:7.1)	
Cercosporamide				*** (IC_{50}:31 nM)	
Lestaurtinib			***** (IC_{50}:0.9 nM)		
SB1317			*** (IC_{50}:73 nM)		
TCS 21311		* (IC_{50}:1017 nM)	* (IC_{50}:2550 nM)	**** (IC_{50}:8 nM)	* (IC_{50}:8055 nM)
TG101209			**** (IC_{50}:6 nM)	** (IC_{50}:169 nM)	

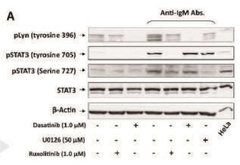
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3012 Ruxolitinib (INCB018424)

Ruxolitinib is the first potent, selective inhibitor of JAK1/2 to enter the clinic with IC50 of 3.3 nM/2.8 nM, >130-fold selectivity for JAK1/2 versus JAK3.



Size:5 mg,25 mg,100mg
Soluble in DMSO > 10 mM

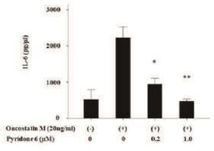


Ruxolitinib inhibits IgM-induced tyrosine phosphorylation of STAT3.

A3741 Pyridone 6

Pyridone 6 is a reversible and selective ATP-competitive inhibitor of Janus-activated kinases(JAK) with IC50 value of 1-15 nM.

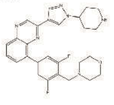
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO



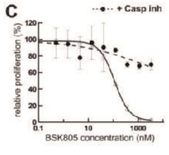
Pyridone 6 suppresses OSM-induced JAKs activation in RA-FLS.

A3675 NVP-BSK805

NVP-BSK805 is a potent and selective inhibitor of JAK2 with IC50 value of 0.58 nM.



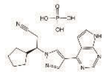
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO



NVP-BSK805 rescues JAK2V617F mutant cells from Epigenetics.

A3781 Ruxolitinib phosphate

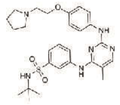
Ruxolitinib is an orally bioavailable JAK inhibitor with IC50 values of 3, 5 and 332 nM for JAK1, JAK2 and JAK3, respectively.



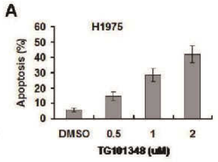
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO

A4136 TG101348 (SAR302503)

TG-101348(SAR302503) is a selective inhibitor of JAK2 with IC50 of 3 nM, 35- and 334-fold more selective for JAK2 versus JAK1 and JAK3.



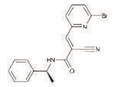
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM



TG101348 inhibits JAK2/STAT3 signaling in NSCLC cells.

A4140 WP1066

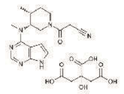
WP1066 is a novel inhibitor of JAK2 and STAT3 with IC50 of 2.30 μM and 2.43 μM in HEL cells.



Size:10 mg,25 mg
Soluble in DMSO > 10 mM

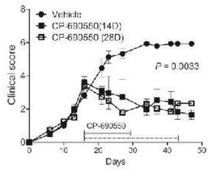
A4135 Tofacitinib (CP-690550) Citrate

Tofacitinib (CP-690550) Citrate is a novel inhibitor of JAK3 with IC50 of 1 nM, 20- to 100-fold less potent against JAK2 and JAK1.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

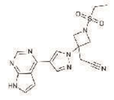
Product Citation:
Breast Cancer Res Treat. (2015)
PMID: 25701119



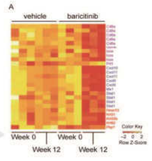
Effects of CP-690550 on arthritis in SKG mice.

A4141 Baricitinib (LY3009104, INCB028050)

Baricitinib (LY3009104, INCB028050) is a selective inhibitor of JAK1 and JAK2 with IC50 values of 5.9 nM and 5.7 nM.



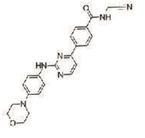
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



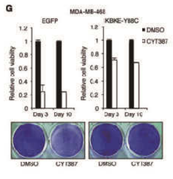
Normalization of IFN signature in baricitinib treated skin.

A4143 CYT387

Momelotinib (CYT387) is an ATP-competitive inhibitor of JAK1/JAK2 with IC50 of 11 nM/18 nM, ~10-fold selectivity versus JAK3.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



Inhibition of JAK and IKBKE signaling by CYT387.

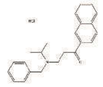
A4147 LY2784544

LY2784544 is a potent, selective inhibitor of JAK2 with IC50 value of 3 nM.

Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

A4151 ZM 39923 HCl

ZM 39923 is a selective inhibitor of JAK1 and JAK3 with pIC50 value of 4.4 and 7.1, respectively.



Size:10 mg,50 mg
oluble in DMSO > 10 mM

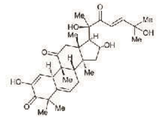
A4510 1,2,3,4,5,6-Hexabromocyclohexane

1,2,3,4,5,6-Hexabromocyclohexane potently and directly inhibits JAK2 tyrosine kinase autophosphorylation, specifically inhibiting ligand-dependent JAK2 activation.

Size:50mg
Limited solubility

A4512 Cucurbitacin I

Cucurbitacin I is a selective inhibitor of JAK2/STAT3 signaling pathway with an IC50 value of 500 nM in A549.



Size:1 mg,5 mg,10 mg
Limited solubility

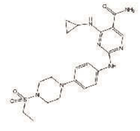
A4517 ZM 449829

ZM 449829 is a potent and selective inhibitor of Janus tyrosine kinase 3(JAK3) which binds competitively to the JAK3 ATP site. pIC50 values are 6.8, 5.0, 4.7, and < 5.0 for JAK3, EGFR, JAK1 and CDK4 respectively.

Size:10 mg,50 mg
Soluble in DMSO and in ethanol

B8023 Cerdulatinib

Cerdulatinib (PRT062070) is a potent and selective inhibitor of Syk and JAK.



Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

PARP Inhibitors

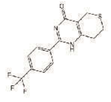
Potency Comparison

Inhibitors	PARP	PARP1	PARP2	TNKS1	TNKS2
4-HQN	* (IC50:9.5 μM)				
ABT-888 (Veliparib)		**** (Ki:5.2 nM)	**** (Ki:2.9 nM)		
AZD2461	*				
INO-1001	*** (IC50<50 nM)				
JW 55				* (IC50:1.9 μM)	** (IC50:0.83 μM)
Olaparib (AZD2281, Ku-0059436)		**** (IC50:5 nM)	**** (IC50:1 nM)		
PJ34 hydrochloride	*** (IC50:20 nM)				
Rucaparib (AG-014699,PF-01367338)	**** (Ki:1.4 nM)				
Rucaparib (free base)	**** (Ki:1.4 nM)				
Tankyrase Inhibitors (TNKS) 22					***** (IC50:0.1 nM)
Tankyrase Inhibitors (TNKS) 49					***** (IC50:0.1 nM)
UPF 1069			** (IC50:0.3 μM)		
Veliparib dihydrochloride		**** (Ki:5.2 nM)	**** (Ki:2.9 nM)		
WIKI4					*** (IC50:15 nM)
AG-14361				*** (IC50:11 nM)	**** (IC50:4 nM)
BMN 673		**** (Ki<5 nM)			
XAV-939		**** (Ki:1.2 nM)	***** (Ki:0.9 nM)		

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

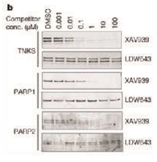
A1877 XAV-939

XAV-939 is a small-molecule inhibitor of tankyrase 1/2 with IC50 values of 4 and 11 nM, respectively.



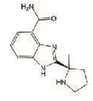
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

XAV 939 blocks the binding of TNKS and PARP1/2.



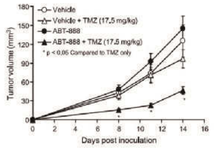
A3002 ABT-888 (Veliparib)

ABT-888 (Veliparib) is a potent inhibitor of PARP1 and PARP2 with Ki of 5.2 nM and 2.9 nM, respectively.



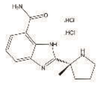
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

ABT-888 enhances the antitumor activity of temozolomide.



A3958 Veliparib dihydrochloride

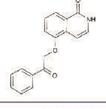
Veliparib dihydrochloride is a potent inhibitor of PARP-1 and PARP-2 with K (i) s of 5.2 and 2.9 nM, respectively.



Size:5 mg,10 mg,50 mg
Soluble in DMSO

A4163 UPF 1069

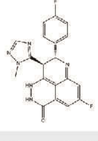
UPF 1069 is a selective inhibitor of PARP2 with IC50 of 0.3 μM and ~27-fold selective against PARP1.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

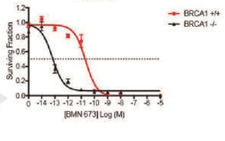
A4153 BMN 673

BMN673 is a potent and selective PARP1/2 inhibitor with Ki of 1.2 and 0.9 nM, respectively.



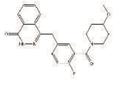
Size:10 mg,50 mg
Soluble in DMSO > 10 mM

BRCA1-/-cells are sensitive to BMN673 treatment



A4164 AZD2461

AZD2461 is a novel PARP inhibitor with IC50 value of 5 nM.



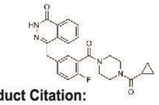
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A4524 4-HQN

4-HQN is an inhibitor of PARP with IC50 of 9.5 μM.

Size:50mg
Soluble in DMSO > 10 mM

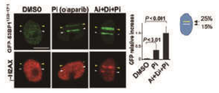
A4154 Olaparib (AZD2281, Ku-0059436)



Size:10 mg,100 mg,500 mg
Soluble in DMSO > 10 mM

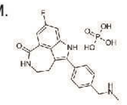
Product Citation:
Nucleic Acids Res (2016). PMID: 26424850

Olaparib restores 53BP1$^{1220-1711}$ recruitment to damage sites.



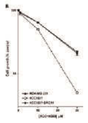
A4156 Rucaparib (AG-014699,PF-01367338)

Rucaparib (AG-014699, PF-01367338) is an inhibitor of PARP1 with Ki of 1.4 nM.



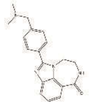
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

Treatment of AG014699 inhibits cell proliferation.



A4158 AG-14361

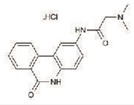
AG-14361 is a selective inhibitor of PARP-1 with Ki50 value < 5 nM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

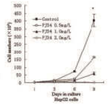
A4159 PJ34 hydrochloride

PJ34 is a novel potent specific inhibitor of PARP-l/2 with EC50 of 20 nM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

PJ34 inhibits HepG2 cell growth.



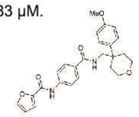
A4161 INO-1001

INO-1001 is a potent inhibitor of PARP with IC50 < 50 nM in CHO cells.

Size:250 mg,500 mg
Soluble in DMSO > 10 mM

A4529 JW 55

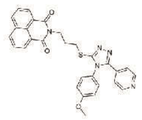
JW 55 is an inhibitor of the PARP domain of TNKS1/2 with IC50 values of 1.9/0.83 μM.



Size:10 mg,50 mg,100mg
Soluble in DMSO > 10 mM

A4531 WIKI4

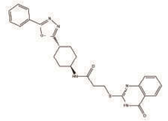
WIKI4 is a novel inhibitor of Tankyrase with IC50 value of 15 nM for TNKS2.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8600 Tankyrase Inhibitors (TNKS) 22

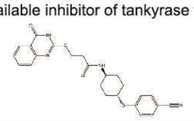
Tankyrase Inhibitors (TNKS) 22 is a potent, selective and orally bioavailable inhibitor of tankyrase with IC50 value of 0.1 nM.



Size:5mg,10mg,50mg,100mg

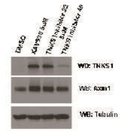
A8601 Tankyrase Inhibitors (TNKS) 49

Tankyrase Inhibitors (TNKS) 49 is a potent, selective and orally bioavailable inhibitor of tankyrase with IC50 value of 0.1 nM.



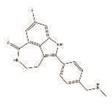
Size:5mg,10mg,50mg,100mg

TNKS 49 is worse than TNKS 22 but still functioning.



A8893 Rucaparib (free base)

Rucaparib (AG-014699, PF-01367338) is an inhibitor of PARP1 with Ki of 1.4 nM.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO

Pim Inhibitors

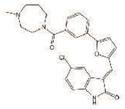
Potency Comparison

Inhibitors	Pim1	Pim2	Pim3
AZD1208	***** (IC_{50}:0.4 nM)	**** (IC_{50}:1.9 nM)	**** (IC_{50}:5 nM)
CX-6258	**** (IC_{50}:5 nM)	*** (IC_{50}:25 nM)	*** (IC_{50}:16 nM)
LKB1 (AAK1 dual inhibitor)	*** (Kd:35 nM)		
SGI-1776 free base	**** (IC_{50}:7 nM)	** (IC_{50}:363 nM)	*** (IC_{50}:69 nM)
TCS PIM-1 1	*** (IC_{50}:50 nM)		
PIM-1 Inhibitor 2	*** (Ki:91 nM)		
SMI-4a	*** (IC_{50}:17 nM)		
TCS-PIM-1-4a	*** (IC_{50}:24 nM)	*** (IC_{50}:100 nM)	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3337 CX-6258

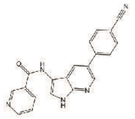
CX-6258 HCl is a potent, orally efficacious inhibitor of pan-Pim kinase with IC50 of 5, 25 and 16 nM for Pim1, Pim2, and Pim3, respectively.



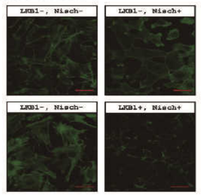
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A3556 LKB1 (AAK1 dual inhibitor)

LKB1 is a selective inhibitor of Pim-1 kinase with Kd value of 35 nM.



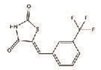
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO



Effect of LKB1 on number of stress fibers.

A4193 SMI-4a

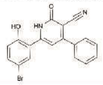
SMI-4a is a selective inhibitor of Pim1 with IC50 value of 17 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A4521 TCS PIM-1 1

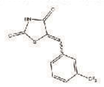
TCS PIM-1 1 is a selective inhibitor of Pim-1 with IC50 value of 50 nM.



Size:10mg,50mg
Soluble in DMSO > 10 mM

B4764 TCS-PIM-1-4a

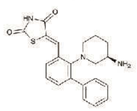
TCS-PIM-1-4a is a Pim inhibitor that blocks mTORC1 activity via activation of AMPK; kills a wide range of both myeloid and lymphoid cell lines with IC50 values ranging from 0.8 to 40 μM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

A3962 AZD1208

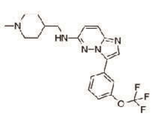
AZD1208 is a potent, and orally available inhibitor of Pim kinase with IC50 values of 0.4, 5, and 1.9 nM for Pim1, Pim2, and Pim3, respectively.



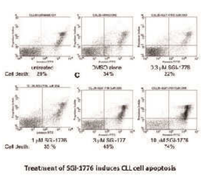
Size:10 mg,25 mg,50 mg,200mg
Soluble in DMSO > 10 mM

A4192 SGI-1776 free base

SGI-1776 is a novel ATP competitive inhibitor of Pim1 with IC50 of 7 nM, 50- and 10-fold selective versus Pim2 and Pim3.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

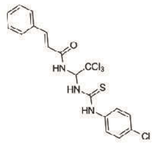


Treatment of SGI-1776 induces CLL cell Epigenetics

Protein Ser/Thr Phosphatase Inhibitors

A4541 Sal 003

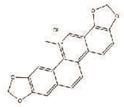
Sal003A is a potent cell-permeable analog of the eIF2α phosphatase inhibitor salubrinal (sc-202332) with enhanced aqueous solubility.



Size:5mg,10 mg,50 mg
Soluble in DMSO > 10 mM

B5970 Sanguinarine chloride

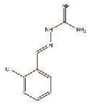
Sanguinarine chloride is a potent and specific inhibitor of PP2C with Ki value of 0.68 μM, and is also a selective and cell-active inhibitor of MKP-1 with IC50 value of 10 μM.



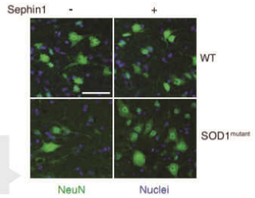
Size:5 mg,10 mg,25 mg
Soluble in DMSO

A8708 Sephin1

Sephin1 is a selective inhibitor of stress-induced PPP1R15A and targets disease associated with accumulation of misfolded protein.



Size:10 mg,50 mg
Soluble in DMSO

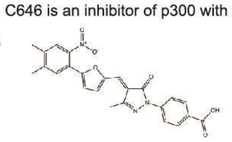


Sephin1 prevents motor neuron loss in SOD1 mutant mice.

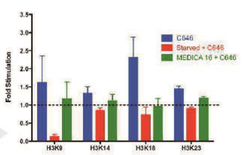
Histone Acetyltransferase Inhibitor

B1577 C646

C646 is an inhibitor of p300 with a Ki value of 400 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM



C646 inhibition in serum starved cells

Sirtuin Inhibitors

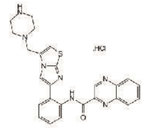
Potency Comparison

Inhibitors	Pan-SIRT	SIRT1	SIRT2	SIRT3
EX 527 (SEN0014196)		**** (IC50:38 nM)		
Inauhzin		* (IC50:0.7-2 μM)		
Sirtinol		* (IC50:131 μM)	* IC50:40 μM)	
Splitomicin	* (EC50:60 μM)			
SRT1720 HCl		*** (EC50:0.16 μM)		
Tenovin-6		**** (IC50:21 nM)	***** (IC50:10 nM)	**** (IC50:67 nM)
Tenovin-1		*	*	
EX-527 S-enantiomer		*** (IC50:123 nM)		
EX-527 R-enantiomer		* (IC50: >100 μM)		
Tenovin-3		*	*	
AK-7			*	

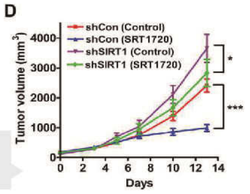
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4180 SRT1720 HCl

SRT1720 is a selective activator of SIRT1 with EC50 of 0.16 μM, but is >230-fold less potent for SIRT2 and SIRT3.



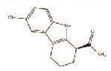
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



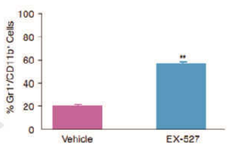
SRT1720 reduces tumor xenograft growth.

A4181 EX 527 (SEN0014196)

EX 527 (SEN0014196) is a novel, potential, and specific small-molecule inhibitor of SIRT1 with an IC50 value of 38 nM.



Size:10 mg,25 mg
Soluble in DMSO > 10 mM



EX-527 enhances immune response in bone marrow-derived cells.

A4183 Sirtinol

Sirtinol is an inhibitor of SIRT with IC50 value of 48.6μM (24 h) and 43.5μM (48 h) in MCF-7 cells.

Size:5 mg,25 mg
Soluble in DMSO > 10 mM

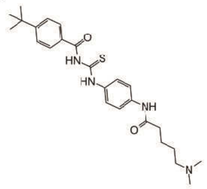
A8242 Splitomicin

Splitomicin is a selective inhibitor of Sir2p and fMLP-induced free radicals with IC50 value of 60 μM 40.79 ± 9.85 μM, respectively.

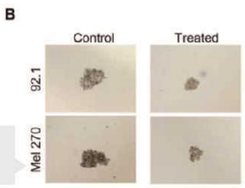
Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8302 Tenovin-6

Tenovin-6 is an inhibitor of sirtuin with IC50 values of 21 μM, 10 μM and 67 μM for SIRT1, SIRT2 and SIRT3, respectively.



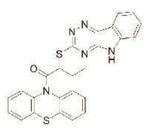
Size:1mg,5mg,10mg,25mg
Soluble in DMSO > 10 mM



Tenovin-6 inhibits properties of cancer stem cells.

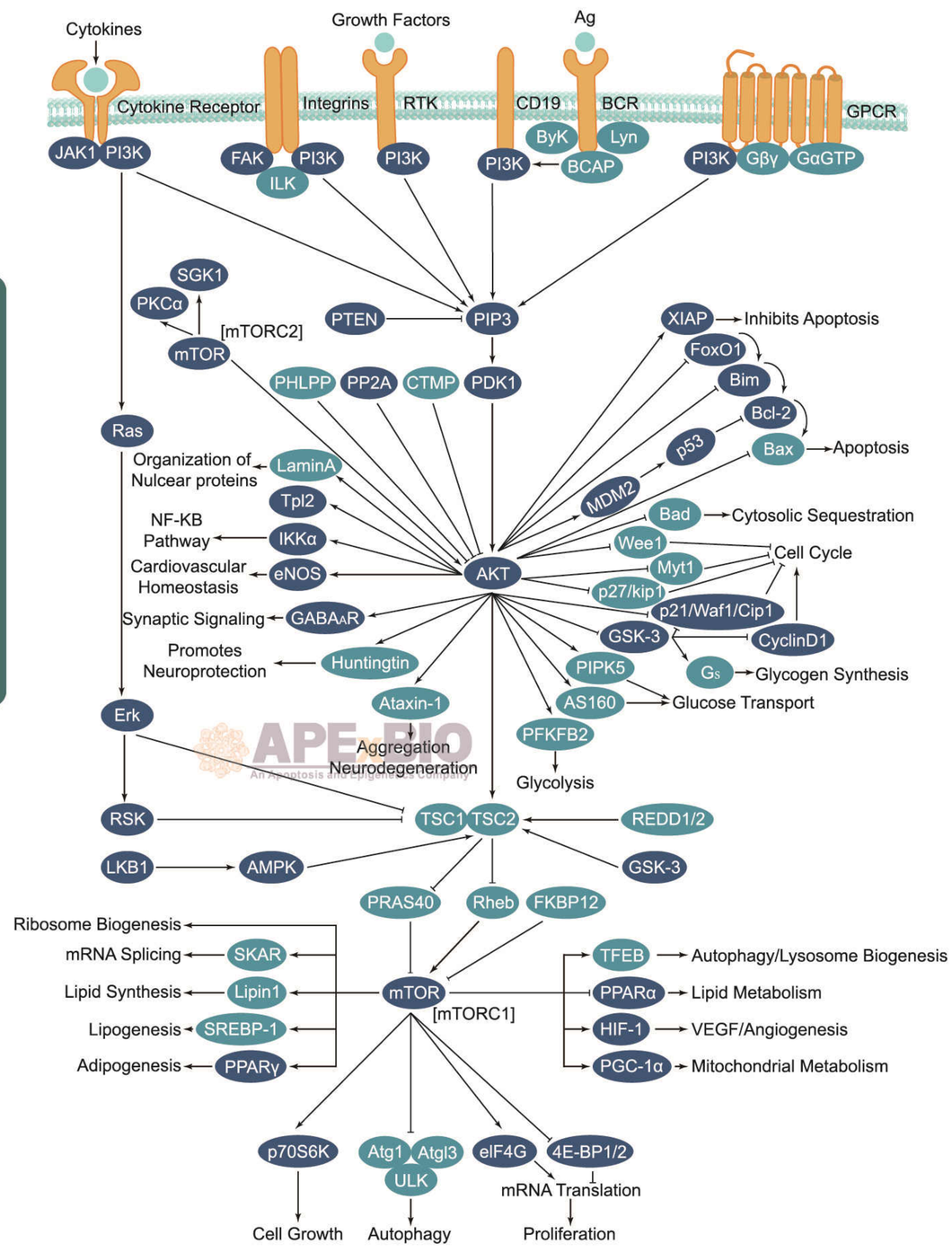
B3272 Inauhzin

Inauhzin is a small-molecule inhibitor of SIRT1 with IC50 value of 0.7-2 μM



Size:10 mg,50 mg
Soluble in DMSO

PI3K/Akt/mTOR Signaling



APEXBIO
An Apoptosis and Epigenetics Company

Akt Inhibitors

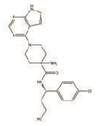
Potency Comparison

Inhibitors	Pan-Akt	Akt1	Akt2	Akt3
3CAI		*	*	*
A-674563		*** (IC_{50}:14 nM)		
AT7867		*** (IC_{50}:32 nM)	*** (IC_{50}:17 nM)	*** (IC_{50}:47 nM)
AZD5363	**** (IC_{50}: <10 nM)			
GDC-0068 (RG7440)		**** (IC_{50}:5 nM)	*** (IC_{50}:18 nM)	*** (IC_{50}:8 nM)
GSK690693		**** (IC_{50}:2 nM)	*** (IC_{50}:13 nM)	*** (IC_{50}:9 nM)
MK-2206 dihydrochloride		**** (IC_{50}:8 nM)	*** (IC_{50}:12 nM)	*** (IC_{50}:65 nM)
Perifosine	* (IC_{50}:4.7 μM)			
PHT-427	* (Ki:2.7 μM)			
TIC10	*			
AT13148	*** (IC_{50}:38 nM)			

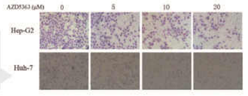
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1387 AZD5363

AZD5363 is a novel, potent phosphoinositide 3-kinase (PI3K)/Akt pathway inhibitor with IC50 value of ~200nM.



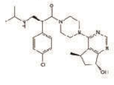
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



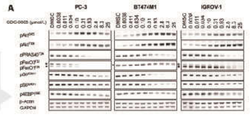
AZD5363 inhibits liver cancer cell migration.

A3006 GDC-0068 (RG7440)

GDC-0068 (RG7440) is a highly selective small molecule inhibitor of Akt with IC50s of 5, 18 and 8 nM for Akt1, Akt2 and Akt3.



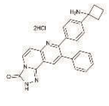
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



Dose-dependent effect of GDC-0068 on Akt pathway biomarkers.

A3010 MK-2206 dihydrochloride

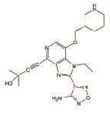
MK-2206 dihydrochloride is a selective inhibitor of Akt1/2/3 with IC50 of 8 nM/12 nM/65 nM, respectively.



Size:10 mg,50mg,100 mg,500 mg
Soluble in DMSO > 10 mM

A5072 GSK690693

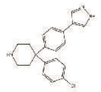
GSK690693 is a pan-Akt inhibitor targeting Akt1, 2, 3 with IC50 values of 2, 13 and 9 nM, respectively.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A5653 AT7867

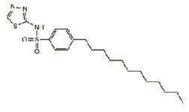
AT7867 is a potent ATP-competitive inhibitor of Akt1/2/3 and p70S6K/PKA with IC50 value of 32 nM/17 nM/47 nM and 85 nM/20 nM, respectively.



Size:5 mg,10 mg,50mg,100 mg
Soluble in DMSO > 10 mM

A5884 PHT-427

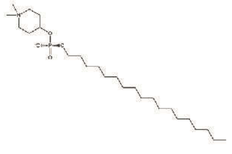
PHT-427 is an inhibitor of Akt and PDPK1 with Ki value of 2.7 and 5.2 μM, respectively.



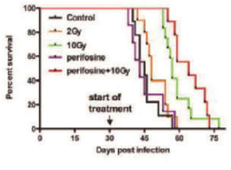
Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A8309 Perifosine

Perifosine (KRX-0401) is a novel inhibitor of Akt with IC50 of 4.7 μM.



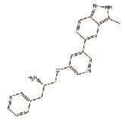
Size:5 mg,25 mg
Limited solubility



PDGF induced Ink4a-ARF null BSGs with radiation and perifosine.

A8616 A-674563

A-674563 is a potent and selective Akt1 inhibitor with IC50 value of 14 nM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A8619 TIC10

TIC10 is an inhibitor of Akt and ERK.

Size:10 mg,20 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

B4688 3CAI

3CAI is a novel and potent allosteric Akt inhibitor, whcih suppresses cancer cell growth.

Size:1 g
Soluble in DMSO

AMPK Inhibitors/Activators

Potency Comparison

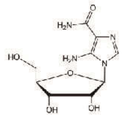
Inhibitors	AMPK	NUAK1
Dorsomorphin 2HCl	** (Ki:109 nM)	
Dorsomorphin	** (Ki:109 nM)	

Activators	AMPK	NUAK1
AICAR	*	
HTH-01-015		*** (IC_{50}:100 nM)
YLF-466D	*	
Imeglimin hydrochloride	*	
Imeglimin	*	
AICAR phosphate	*	
PT 1	*	
RSVA 405	* (EC_{50}:1 μM)	
ZLN024	** (EC_{50}:0.42/0.95 μM)	
ZLN024 hydrochloride	** (EC_{50}:0.42/0.95 μM)	

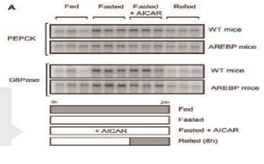
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A8184 AICAR

AICAR is a cell-permeable, allosteric activator of AMP-activated protein kinase (AMPK).



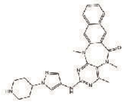
Size:50 mg,200 mg,1 g
Limited solubility



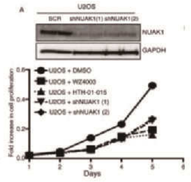
AICAR decreased PEPCK and G6Pase mRNAs in AREBP mice.

A8890 HTH-01-015

HTH-01-015 is a highly specific inhibitor of NUAK1 with IC50 value of 100 nM.



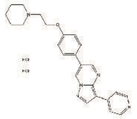
Size:10 mg,50 mg,200 mg
Soluble in DMSO



NUAK1 inhibition suppresses cell proliferation.

B1372 Dorsomorphin 2HCl

Dorsomorphin inhibited BMP4-induced phosphorylation of BMP-responsive SMADs in a dose-dependent manner with IC50 of 0.47 mM.



Size:5mg,10 mg,50 mg
Limited solubility

CK2 Inhibitors

Potency Comparison

Inhibitors	CK2
DMAT	** (IC_{50}:130 nM)
TTP 22	*** (Ki:40 nM)
TBB	* (IC_{50}:0.9-1.6 μM)
CX-4945 (Silmitasertib)	***** (IC_{50}:1 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

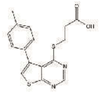
A3368 DMAT

DMAT displays submicromolar IC50 values with almost all of the other kinases with special reference to PKD1, PIM3 and PIM1.

Size:10 mg,50 mg
Soluble in DMSO

A3894 TTP 22

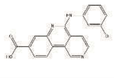
TTP 22 is a high affinity, ATP-competitive casein kinase 2 (CK2) inhibitor with IC50 value of 0.1 μM and Ki value of 40 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8330 CX-4945 (Silmitasertib)

CX-4945 (Silmitasertib) is a potent and selective inhibitor of CK2 (casein kinase 2) with IC50 of 1 nM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

Treatment of CX-4945 inhibits PTEN phosphorylation.

DNA-PK Inhibitors

Potency Comparison

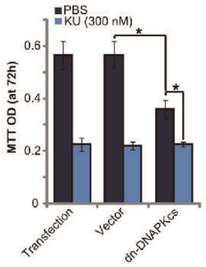
Inhibitors	DNA-PK
ETP-46464	*** (IC_{50}:36 nM)
KU-0060648	*** (IC_{50}:19 nM)
NU7441 (KU-57788)	*** (IC_{50}:14 nM)
NU 7026	** (IC_{50}:0.23 μM)
DMNB	* (IC_{50}:15 μM)
Compound 401	** (IC_{50}:0.28 μM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1769 KU-0060648

KU-0060648 inhibits cellular DNA-PK autophosphorylation with IC50 values of 0.17 μM (SW620 cells) and 0.019 μM (MCF7 cells).

Size:5 mg,25 mg,100 mg
Limited solubility



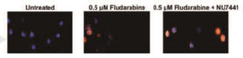
DNA-PKcs is an important target of KU-0060648 in HCC cells.

A8315 NU7441 (KU-57788)

NU7441 is a selective inhibitor of DNA-dependent protein kinase (DNA-PK) with IC50 value of 13 nM and Ki value of 0.65 nM.

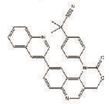
Size:5 mg,25 mg
Limited solubility

NU7441 increases Fludarabine induced DSB.



A8626 ETP-46464

ETP-46464 is a potent and selective inhibitor for ATR (IC50 : 25 nM).

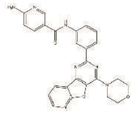


Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

PIKfyve Inhibitor

B2189 YM201636

YM201636 is a potent, selective and cell-permeable inhibitor of PIKfyve with IC50 value of 33 nM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

GSK-3 Inhibitors

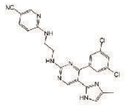
Potency Comparison

Inhibitors	GSK-3	GSK-3α	GSK-3β
AZD1080		**** (Ki:6.9 nM)	*** (Ki:31 nM)
Bikinin	*		
CHIR-98014		***** (IC_{50}:0.65 nM)	***** (IC_{50}:0.58 nM)
CHIR-99021 (CT99021)	**** (IC_{50}:7 nM)	**** (IC_{50}:10 nM)	**** (IC_{50}:6.7 nM)
CHIR-99021 (CT99021) HCl		**** (IC_{50}:10 nM)	**** (IC_{50}:6.7 nM)
GSK-3 Inhibitor IX (BIO)	**** (IC_{50}:5 nM)		
TDZD-8			* (IC_{50}:1.3 μM)
TWS119			*** (IC_{50}:30 nM)
SB 415286		*** (IC_{50}:78 nM), (Ki:31 nM)	*** (IC_{50}:78 nM)
SB 216763		*** (IC_{50}:34.3 nM)	*** (IC_{50}:34.3 nM)
LY2090314		**** (IC_{50}:1.5 nM)	***** (IC_{50}:0.9 nM)
AR-A014418			*** (IC_{50}:104 nM), (Ki:38 nM)
IM-12			*** (IC_{50}:53 nM)

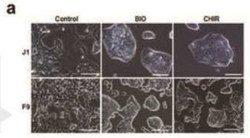
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3011 CHIR-99021 (CT99021)

CHIR-99021 (CT99021) is an inhibitor of GSK-3α/β with IC50 of 10 nM/6.7 nM; > 500-fold selectivity for GSK-3 versus its closest homologs CDC2 and ERK2, as well as other protein kinases.



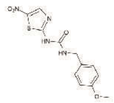
Size:5 mg,25 mg,100 mg
Soluble in DMSO



BIO and CHIR promote colony formation of J1 mESCs and F9 mEC cells.

A3184 AR-A014418

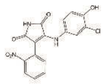
AR-A014418 is an ATP-competitive, and selective inhibitor of GSK3β with IC50 and Ki of 104 nM and 38 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8241 SB 415286

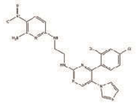
SB415286 is a potent GSK3α inhibitor with IC50 and Ki values of 78 nM and 31 nM,respectively.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8395 CHIR-98014

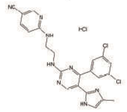
CHIR-98014 is a potent inhibitor of GSK-3α and GSK-3β with IC50 values of 0.65 nM and 0.58 nM, respectively.



Size:5 mg,10 mg,25 mg,50 mg
Limited solubility

A8396 CHIR-99021 (CT99021) HCl

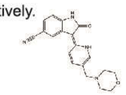
CHIR-99021 (CT99021) HCl, hydrochloride of CHIR-99021, is an inhibitor of GSK-3α/β with IC50 of 10 nM/6.7 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

B1536 AZD1080

AZD1080 is a selective, orally active, brain permeable inhibitor of GSK3 with Ki values of 6.9 nM and 31 nM for human GSK3α and GSK3β, respectively.



Size:5 mg,10 mg,25 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

B4898 Bikinin

Bikini is a strong activator of Brassinosteroid (BR) signaling and an inhibitor of glycogen synthase kinase 3 proteins (GSK3).

Size:25 mg,100 mg
Soluble in DMSO > 10 mM

mTOR Inhibitors

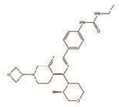
Potency Comparison

Inhibitors	Pan-mTOR	mTOR1	mTOR2
AZD2014	**** (IC_{50}:2.8 nM)		
AZD8055	***** (IC_{50}:0.8 nM)		
Everolimus (RAD001)	**** (IC_{50}:1.6-2.4 nM)		
GDC-0349	**** (Ki:3.3 nM)		
GNE-477	*** (Ki:21 nM)		
GSK2126458		***** (Ki:0.18 nM)	***** (Ki:0.3 nM)
INK 128 (MLN0128)	***** (IC_{50}:1 nM)		
KU-0063794		**** (IC_{50}:10 nM)	**** (IC_{50}:10 nM)
Rapamycin (Sirolimus)	***** (IC_{50}:0.1 nM)		
Ridaforolimus (Deforolimus, MK-8669)	***** (IC_{50}:0.2 nM)		
Temsirolimus	** (IC_{50}:1.76 μM)		
Torin 1		**** (IC_{50}:2 nM)	**** (IC_{50}:10 nM)
Torin 2	***** (IC_{50}:0.25 nM)		
XL388	**** (IC_{50}:9.9 nM)		
GNE-493	*** (IC_{50}:32 nM)		
OSI-027	**** (IC_{50}:4 nM)	*** (IC_{50}:22 nM)	*** (IC_{50}:65 nM)
WYE-687	**** (IC_{50}:7 nM)		

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1642 GDC-0349

GDC-0349 is a potent, selective, ATP-competitive inhibitor of (Mammalian target of rapamycin) mTOR with Ki value of 3.8 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A3940 XL388

XL388 is a selective inhibitor of mTOR with IC50 value of 9.9 nM.

Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

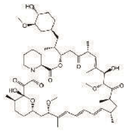
A5078 KU-0063794

Ku-0063794 is a specific mTOR inhibitor with IC50 values of ~10 nM for mTORC1 and mTORC2.

Size:5 mg,25 mg,100 mg
Limited solubility

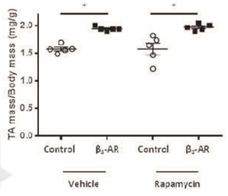
A8167 Rapamycin (Sirolimus)

Rapamycin (Sirolimus, AY-22989, WY-090217) is a specific inhibitor of mTOR with IC50 of ~0.1 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

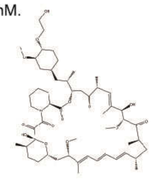
Product Citation:
Sci Rep (2016). PMID: 26972746



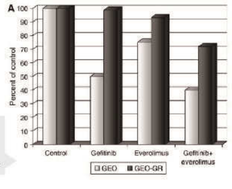
Effect of Rapamycin on muscle hypertrophy.

A8169 Everolimus (RAD001)

Everolimus (RAD001) is an inhibitor of mTOR for FKBP12 with IC50 of 1.6-2.4 nM.



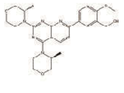
Size:10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



RAD001 restores the survival-inhibitory effects of anti-EGFR drugs.

A8214 AZD8055

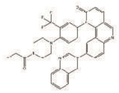
AZD8055 is a selective inhibitor of mTOR kinase with IC50 of 0.8 nM.



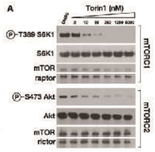
Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A8312 Torin 1

Torin 1 is a potent inhibitor of mTORC1/2 with IC50 of 2 nM/10 nM.



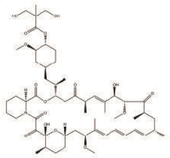
Size:5 mg,25 mg
Limited solubility



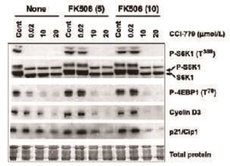
Torin 1 inhibits mTOR pathway.

A8314 Temsirolimus

Temsirolimus (CCI-779) is a specific inhibitor of mTOR with IC50 of 1.76 μM.



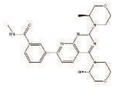
Size:10 mg,25 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



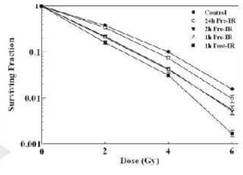
Treatment of Temsirolimus inhibits mTOR pathway.

A8373 AZD2014

AZD2014 is a novel, potent and highly selective dual inhibitor of the mammalian rapamycin (mTORC1 and mTORC2) with an IC50 value of 2.8 nM.



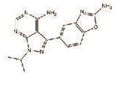
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



The effect of timing of AZD2014 treatment on GSC radiosensitivity.

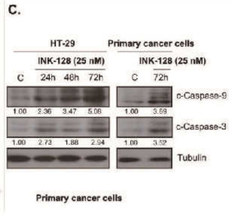
A8551 INK 128 (MLN0128)

INK 128 (MLN0128) is a selective inhibitor of mTOR with IC50 value of 1 nM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

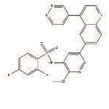
Product Citation:
PNAS. (2015) PMID: 26170311



INK-128 induces apoptotic death of colorectal cancer cells.

A8556 GSK2126458

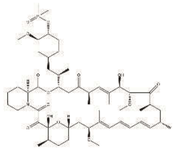
GSK2126458 is an inhibitor of PI3K/mTOR with Ki value of 19 pM for PI3K.



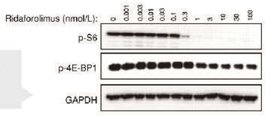
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

B1639 Ridaforolimus (Deforolimus, MK-8669)

Ridaforolimus (Deforolimus, MK-8669), a novel rapamycin analogue, is a potent and selective inhibitor of mTOR with IC50 value of 0.2 nM.



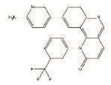
Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



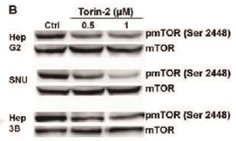
Ridaforolimus attenuates mTOR signaling.

B1640 Torin 2

Torin 2 is a potent and selective inhibitor of mTOR with an IC50 value of 0.25 nM.



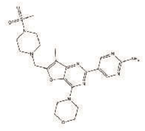
Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



Torin-2 inhibits mToR activation.

B8001 GNE-477

GNE-477 is a potent dual PI3K/mTOR inhibitor with IC5 value of 4 and 21 nmol/L, respectively.

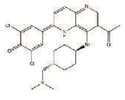


Size:1 mg,5 mg
Soluble in DMSO

MELK Inhibitor

B1321 OTSSP167

OTSSP167 is an inhibitor of maternal embryonic leucine zipper kinase (MELK) with IC50 value of 0.41nM.



Size:5 mg,10 mg,50 mg
Limited solubility

PDK-1 Inhibitors

Potency Comparison

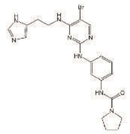
Inhibitors	PDK-1
BX-912	*** (IC_{50}:26 nM)
GSK2334470	**** (IC_{50}:10 nM)
OSU-03012 (AR-12)	* (IC_{50}:5 μM)
NVP-BAG956	** (IC_{50}:240 nM)
BX795	**** (IC_{50}:6 nM)
PDK1 inhibitor	*

Activator	PDK-1
PS 48	* (Kd:10.3 μM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A2806 BX-912

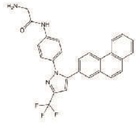
BX-912 is a potent and selective inhibitor of PDK1 with IC50 value of 26 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A2846 OSU-03012 (AR-12)

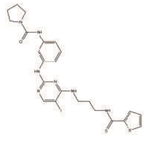
OSU-03012 (AR-12) is an inhibitor of PDK-1 with IC50 value of 5 μM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A8222 BX795

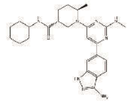
BX795 is a potent and specific inhibitor of PDK1 with IC50 of 6 nM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

B2174 GSK2334470

GSK2334470 is a highly specific inhibitor of PDK-1 with IC50 value of ~ 10 nM.



Size:10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

PI3K Inhibitors/Activator

Potency Comparison

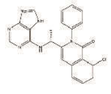
Inhibitors	Pan-PI3K	PI3Kα	PI3Kβ	PI3Kγ	PI3Kδ	mTOR	p110δ
A66		*** (IC_{50}:32 nM)					
AS-605240		*** (IC_{50}:60 nM)		**** (IC_{50}:8 nM)			
AZD6482			**** (IC_{50}:10 nM)		*** (IC_{50}:80 nM)		
BEZ235		**** (IC_{50}:4 nM)	*** (IC_{50}:75 nM)	**** (IC_{50}:5 nM)	**** (IC_{50}:7 nM)		
BEZ235 Tosylate	*					*	
BKM120		*** (IC_{50}:52 nM)	** (IC_{50}:166 nM)	** (IC_{50}:262 nM)	** (IC_{50}:116 nM)		
BYL-719		**** (IC_{50}:5 nM)					
CAL-101							**** (IC_{50}:2.5 nM)
CAY10505					*** (IC_{50}:30 nM)		
CZC24832				* (IC_{50}:1 μM)			
GDC-0032		***** (IC_{50}:0.29 nM)		***** (IC_{50}:0.97 nM)	***** (IC_{50}:0.12 nM)		
GDC-0941		**** (IC_{50}:3 nM)	*** (IC_{50}:33 nM)	*** (IC_{50}:75 nM)	**** (IC_{50}:3 nM)		
GSK1059615		***** (IC_{50}:0.4 nM)	***** (IC_{50}:0.6 nM)	**** (IC_{50}:5 nM)	**** (IC_{50}:2 nM)	*** (IC_{50}:12 nM)	
GSK2636771			* (SF_{50}:1 μM)				
IC-87114					** (IC_{50}:0.5 μM)		
IPI-145				*** (IC_{50}:19.6 nM)	***** (IC_{50}:0.36 nM)		
LY 294002		***** (IC_{50}:0.5 nM)	***** (IC_{50}:0.97 nM)		***** (IC_{50}:0.57 nM)		
NVP-BGT226		**** (IC_{50}:4 nM)	*** (IC_{50}:63 nM)	*** (IC_{50}:38 nM)			
PF-04691502		***** (Ki:1.8 nM)	**** (Ki:2.1 nM)	**** (Ki:1.9 nM)	**** (Ki:1.6 nM)		
PI-103		**** (IC_{50}:2 nM)	**** (IC_{50}:3 nM)	*** (IC_{50}:15 nM)	**** (IC_{50}:3 nM)	*** (IC_{50}:30 nM)	
PI-3065							**** (IC_{50}:5 nM)
PIK-75		**** (IC_{50}:5.8 nM)	* (IC_{50}:1.3 μM)	*** (IC_{50}:76 nM)	** (IC_{50}:0.51 μM)		
PIK-93		*** (IC_{50}:39 nM)		*** (IC_{50}:16 nM)	** (IC_{50}:120 nM)		
PKI-402		**** (IC_{50}:2 nM)	**** (IC_{50}:7 nM)	*** (IC_{50}:16 nM)	*** (IC_{50}:14 nM)		
Quercetin	*						
SAR245409		*** (IC_{50}:39 nM)	** (IC_{50}:113 nM)	**** (IC_{50}:9 nM)	*** (IC_{50}:43 nM)	** (IC_{50}:157 nM)	
TG100-115				*** (IC_{50}:83 nM)	** (IC_{50}:235 nM)		
VS-5584		**** (IC_{50}:2.6 nM)	*** (IC_{50}:21 nM)	**** (IC_{50}:3 nM)	**** (IC_{50}:2.7 nM)	**** (IC_{50}:3.4 nM)	
XL147		*** (IC_{50}:39 nM)	** (IC_{50}:383 nM)	*** (IC_{50}:23 nM)	*** (IC_{50}:36 nM)		
ZSTK474		*** (IC_{50}:16 nM)	*** (IC_{50}:44 nM)	*** (IC_{50}:49 nM)	**** (IC_{50}:4.6 nM)		
PF-05212384		***** (IC_{50}:0.4 nM)		**** (IC_{50}:5.4 nM)		**** (IC_{50}:1.6 nM)	

Activator	Pan-PI3K	PI3Kα	PI3Kβ	PI3Kγ	PI3Kδ	mTOR	p110δ
740 Y-P	* (IC_{50}:20 μM)						

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1720 IPI-145 (INK1197)

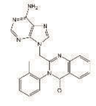
IPI-145 (INK1197) is a small-molecule PI3K inhibitor with IC50 of 2.5 nM and 27 nM respectively for PI3K-δ and PI3K-γ.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A2065 IC-87114

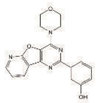
IC87114 is a PI(3)Kδ selective inhibitor with IC50 of 50 nM.



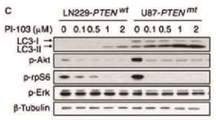
Size:5 mg,10 mg,50 mg
Limited solubility

A2067 PI-103

PI-103 is a multi-targeted inhibitor of PI3K for p110α/β/δ/γ with IC50 of 2/3/3/15 nM, less potent to mTOR/DNA-PK with IC50 of 30/23 nM.



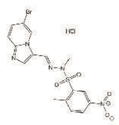
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



Treatment of PI-103 induces autophagosome formation.

A2080 PIK-75

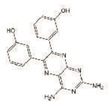
PIK-75 is a specific inhibitor of p110α isoform of PI3K with IC50 of 5.8 nM.



Size:10 mg,50 mg,100 mg
Limited solubility

A2754 TG100-115

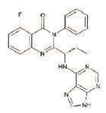
TG100-115 is an inhibitor of PI3Kγ and PI3Kδ with IC50 values of 83 nM and 235 nM, respectively.



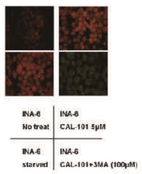
Size:5 mg,10 mg,50 mg
Limited solubility

A3005 CAL-101 (Idelalisib, GS-1101)

CAL-101 (Idelalisib, GS-1101) is a selective inhibitor of p110δ with IC50 of 2.5 nM.



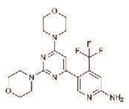
Size:5 mg,20 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



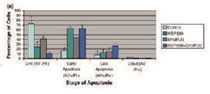
CAL-101 induces autophagy.

A3015 BKM120

BKM120 (NVP-BKM120, Buparlisib) is a selective PI3K inhibitor of p110α/β/δ/γ with IC50 of 52/166/116/262 nM, respectively.



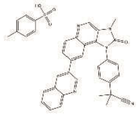
Size:5 mg,10 mg,100 mg
Soluble in DMSO > 10 mM



Treatment of BKM120 for U87Mg cells.

A3238 BEZ235 Tosylate

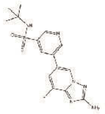
BEZ235 is an imidazoquinoline derivative, inhibiting both PI3K and mTOR kinases with low nanomolar IC50s.



Size:50 mg,100 mg
Soluble in DMSO

A3340 CZC24832

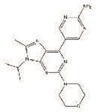
CZC24832 is a selective inhibitor of PI 3-kinase γ with IC50 value of 1 μM.



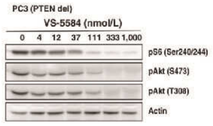
Size:5 mg
Soluble in DMSO > 10 mM

A3927 VS-5584 (SB2343)

VS-5584 (SB2343) is a potent and selective dual inhibitor of PI3K/mTOR for mTOR, PI3Kα/β/δ/γ with IC50 of 3.4 nM and 2.6-21 nM, respectively.



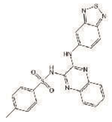
Size:5mg,10 mg,50mg
Soluble in DMSO > 10 mM



VS-5584 effectively blocks PI3K/mTOR signaling in cancer cell.

A5112 XL147

XL147 is a selective and reversible inhibitor of PI3Kα/ PI3Kδ/ PI3Kγ with IC50 values of 39/36/23 nM, respectively.



Size:5 mg,25 mg,100 mg
Limited solubility

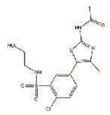
A5176 AS-605240

AS-605240 is a selective PI3K γ inhibitor with an IC50 of 8 nM.

Size:10 mg,50 mg,100 mg
Limited solubility

A5449 PIK-93

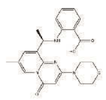
PIK-93 is a potent and novel inhibitor of p110γ (PI3Kγ) and PI4KIIIβ (IC50:16 nM and 19 nM, respectively).



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A5478 AZD6482

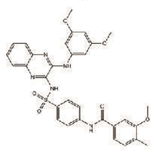
AZD6482 is an inhibitor of PI3Kβ with an IC50 value of 10 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A5634 SAR245409 (XL765)

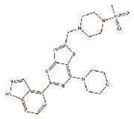
SAR245409 (XL765) is a selective dual inhibitor of PI3K and mTOR (IC50:9 nM for PI3Kγ).



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

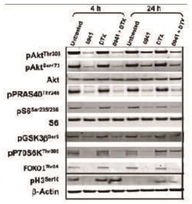
A8210 GDC-0941

GDC-0941 is a potent inhibitor of PI3Kα/δ with IC50 of 3 nM, with modest selectivity against p110β (11-fold) and p110γ (25-fold).



Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

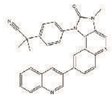
Product Citation:
Cell Mol Life Sci (2015).
PMID: 26040420



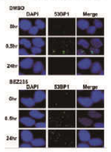
Effect of GDC-0941 on PI3K pathway.

A8246 BEZ235 (NVP-BEZ235)

BEZ235 (NVP-BEZ235) is a dual ATP-competitive inhibitor of PI3K and mTOR for p110α/γ/δ/β and mTOR (p70S6K) with IC50 of 4/5/7/75/6 nM, respectively.



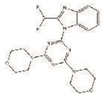
Size:100 mg,500 mg
Limited solubility



Treatment of BEZ235 inhibits DSB repair.

A8248 ZSTK474

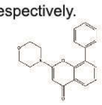
ZSTK474 is an inhibitor of class I PI3K isoforms with IC50 value of 37 nM.



Size:10 mg,25 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

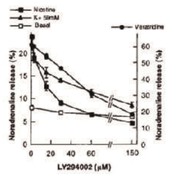
A8250 LY 294002

LY294002 is an inhibitor of PI3Kα/δ/β with IC50 of 0.5 μM/0.57 μM/ 0.97 μM, respectively.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

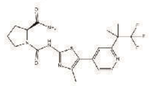
Product Citation:
Breast Cancer Res Treat (2015).
PMID: 25701119



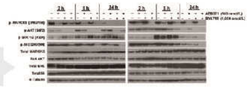
Treatment of LY294002 inhibits noradrenaline secreation.

A8346 BYL-719

BYL719 is a potent and selective inhibitor of PI3Kα with IC50 of 5 nM.



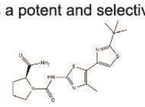
Size:5 mg,20 mg,100 mg
Soluble in DMSO > 10 mM



BYL-719 inhibits PI3K pathways.

A8354 A66

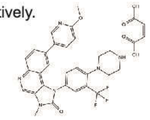
A66 is a potent and selective p110α inhibitor with IC50 of 32 nM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A8488 NVP-BGT226

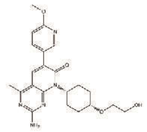
BGT226 (NVP-BGT226) is a novel inhibitor of class I PI3K/mTOR with IC50 values of 4, 63 and 38 nM for PI3Kα, PI3Kβ and PI3Kγ, respectively.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A8499 PF-04691502

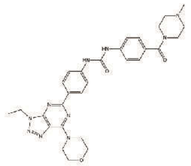
PF-04691502 is a potent and selective dual PI3K/mTOR (FRAP) inhibitor to phosphorylation of Akt T308 (IC50:7.5 nM) and Akt S473 (IC50:3.8 nM).



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A8505 PKI-402

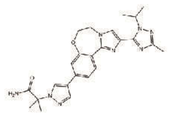
PKI-402 is a potent dual inhibitor of PI3K/mTOR with IC50 values of 2/7/16/14 nM and 3 nM for PI3Kα/β/γ/δ and mTOR, respectively.



Size:5 mg,10 mg,50 mg
Limited solubility

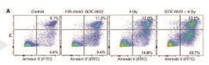
B1047 GDC-0032

GDC-0032 is a potent, next-generation inhibitor of β isoform-sparing PI3K with IC50 values of 0.29/0.12/0.97 nM for PI3Kα/δ/γ, respectively.



Size:5 mg,10 mg,25 mg,100 mg
Soluble in DMSO

GDC-0032 enhances radiation-induced apoptosis of cancer cell lines.



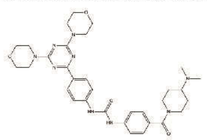
B2176 GSK1059615

GSK1059615 is an inhibitor of pan-PI3K with IC50 values of 0.4, 0.6, 5, 2 and 12 nM for PI3Kα, P13Kβ, P13Kγ, P13Kδ and mTOR, respectively.

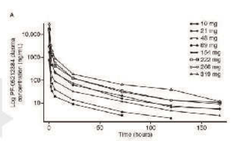
Size:5 mg,10 mg,25 mg,50 mg
Limited solubility

B2179 PF-05212384 (PKI-587)

PF-05212384 (PKI-587) is a highly potent dual inhibitor of PI3Kα, PI3Kγ and mTOR with IC50 values of 0.4 nM, 5.4 nM and 1.6 nM, respectively.



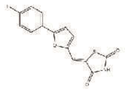
Size:5 mg,25 mg
Limited solubility



Plasma mean concentration-time profiles of PF-05212384.

B2182 CAY10505

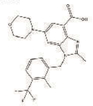
CAY10505 is a potent and selective PI3Kγ inhibitor (IC50:30 nM).



Size:10 mg,25 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

B2186 GSK2636771

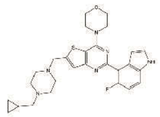
GSK2636771 is a p110β isoform-specific inhibitor of PIK3 with SF50 more than 1 μM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

B4660 PI-3065

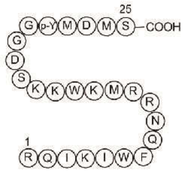
PI-3065 is a small molecule and selective inhibitor of p110δ kinase with an Ki value of 1.5 nM and IC50 value of 5 nM.



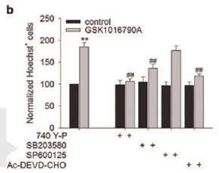
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

B5246 740 Y-P

740 Y-P is an activator of PI3K with concentration of 20 μM.



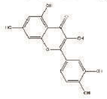
Size:1 mg,5 mg
Soluble to 1 mg/ml in sterile water



740 Y-P inhibits the GSK1016790A-induced apoptosis.

N1841 Quercetin

Quercetin is a strong inhibitor of PI3K, NF-κB, and other kinases involved in intracellular signaling.



Size:100 mg
Soluble in DMSO > 10 mM

S6 Kinase Inhibitors

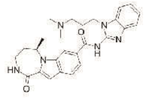
Potency Comparison

Inhibitors	p90 RSK1	p90 RSK2	p90 RSK3	p90 RSK4	p70 S6K1
BI-D1870	*** (IC_{50}:31 nM)	*** (IC_{50}:24 nM)	*** (IC_{50}:18 nM)	*** (IC_{50}:15 nM)	
BIX 02565		***** (IC_{50}:1.1 nM)			
PF-4708671					** (IC_{50}:160 nM)
CMK		*			
FMK		*** (IC_{50}:15 nM)			

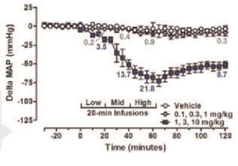
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

B1295 BIX 02565

BIX 02565 is a novel inhibitor of ribosomal S6 kinase 2 with IC50 value of 1 nM.



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO



Effect of vehicle or BIX 02565 (compound 1) on MAP.

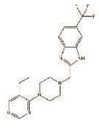
B2227 BI-D1870

BI-D1870 is a cell-permeable inhibitor of the p90 RSK isoforms with IC50 values of 31 nM, 24 nM, 18 nM and 15 nM for RSK1, RSK2, RSK3 and RSK4 respectively.

Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

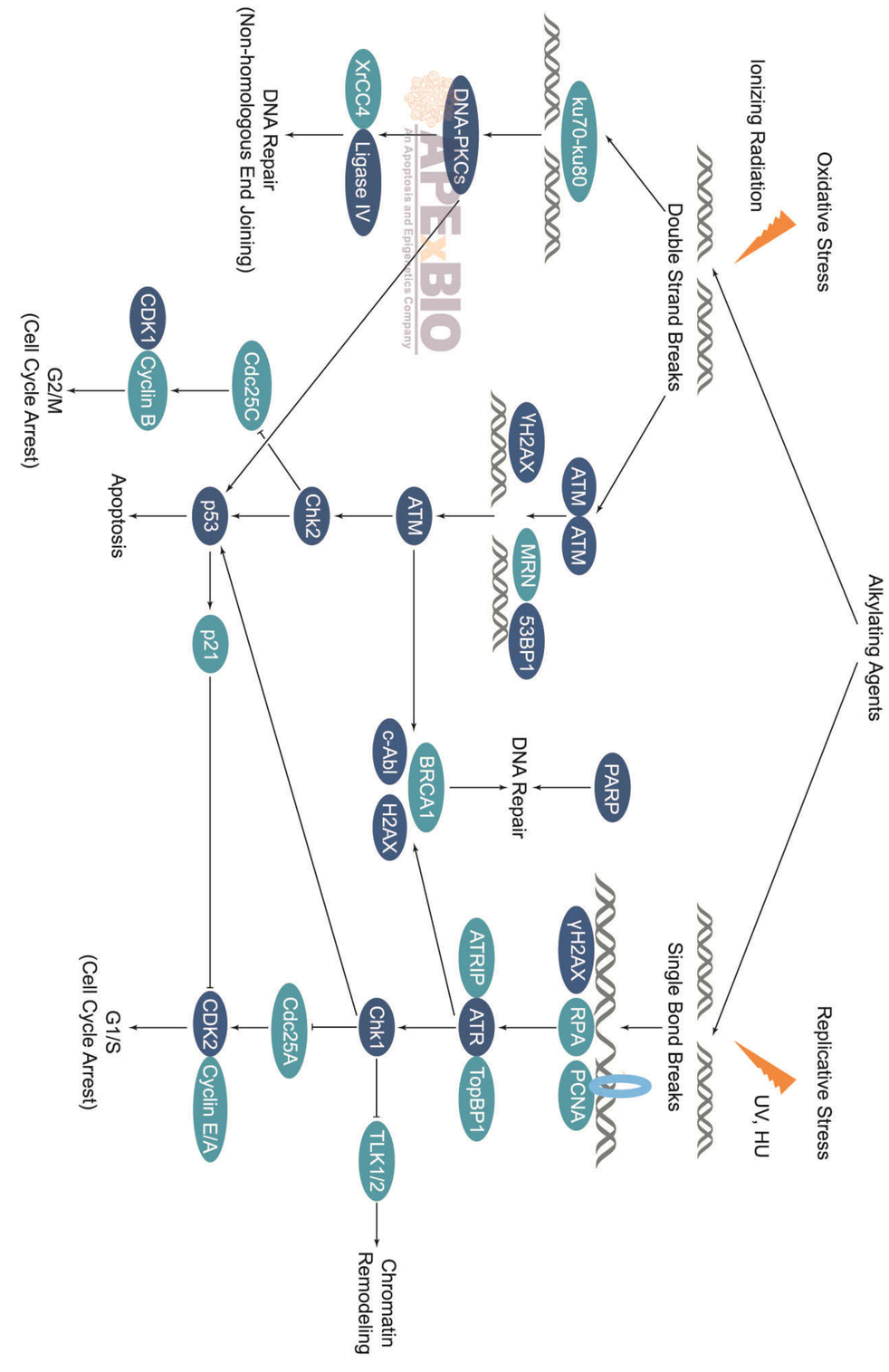
B2228 PF-4708671

PF-4708671 is a cell-permeable and highly specific inhibitor of p70 ribosomal S6 kinase 1 with IC50 value of 160 nM.



Size:10 mg,25 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

DNA Damage/DNA Repair



DNA Methyltransferase Inhibitors

See page 15 for the relevant product information.

HDAC Inhibitors

See page 16 for the relevant product information.

PARP Inhibitors

See page 27 for the relevant product information.

ATM/ATR Inhibitors

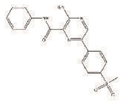
Potency Comparison

Inhibitors	ATM	ATR
VE-821		*** (IC_{50}:26 nM) (Ki:13 nM)
AZ20		**** (IC_{50}:5 nM)
CGK733	** (IC_{50}:200 nM)	** (IC_{50}:200 nM)
CP-466722	*	
KU 55933	*** (IC_{50}:13 nM)	**** (Ki:2.2 nM)
KU-60019	**** (IC_{50}:6.3 nM)	
VE-822		*** (IC_{50}:0.019 μM)
ETP-46464	** (IC_{50}:545 nM)	*** (IC_{50}:14 nM)
Mirin	* (IC_{50}:12 μM)	

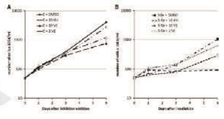
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A2521 VE-821

VE-821 is a potent, highly-selective, and ATP-competitive DNA damage response (DDR) kinase ATR inhibitor with Ki value of 13 nM.



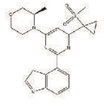
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



Proliferation changes of HL-60 incubation with VE821 and KU55933.

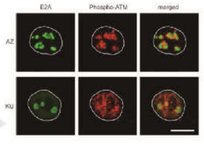
A3210 AZ20

AZ20 is a potent and selective inhibitor of ATR with IC50 of 5 nM and 50 nM for ATR immunoprecipitated from HeLa nuclear and ATR mediated phosphorylation of Chk1 in HT29 colorectal adenocarcinoma tumor cells, respectively.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

Product Citation:
Cell. (2015) PMID: 26317467

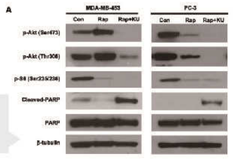


The assembly of viral genome domains activates ATM phosphorylation.

A4605 KU 55933

KU-55933 is a specific inhibitor of ATM kinase with IC50 value of 13 nM.

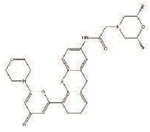
Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



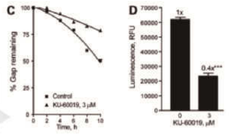
The combination of KU-55933 with rapamycin leads to apoptosis.

A8336 KU-60019

KU-60019 is a selective inhibitor of the Ataxia telangiectasia (A-T) mutated (ATM) protein with an IC50 value of 6.3 nM.



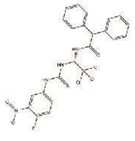
Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



KU-60019 inhibits migration and invasion of human glioma U87 cells.

A8624 CGK733

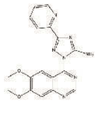
CGK 733 is a potent and selective inhibitor of ATM/ATR with an IC50 value of ~200 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8625 CP-466722

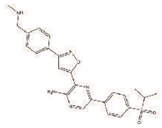
CP-466722 is a selective inhibitor of ATM kinase with IC50 value of 0.41 μM.



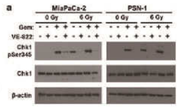
Size:5 mg,10 mg,50 mg
Limited solubility

B1383 VE-822

VE-822 is an ATR inhibitor with an IC50 value of 0.019 μM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM



VE-822 attenuates ATR signaling pathway.

DNA Alkylating Inhibitors

A2559 Altretamine

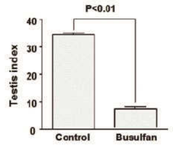
Altretamine is an antitumor agent which also acts as a chemosterilant for male houseflies and other insects.

Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A8386 Busulfan

Busulfan is a DNA alkylating agent.

Size:50mg
Soluble in DMSO > 10 mM



Effect of Busulfan on spermatogenesis.

B1399 Temozolomide

Temozolomide, an alkylating agent, is a DNA damage inducer.

Size:10 mg,50 mg
Soluble in DMSO > 10 mM

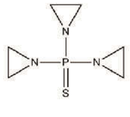
B1963 Lomustine

Lomustine is an antineoplastic drug that inhibits the growth of tumour cell lines with IC50 values of 25, 8.8 and 13 μM for breast ZR-75-1, astrocytoma U87MG and colorectal LS174T cell lines.

Size:250 mg,500 mg
Soluble in DMSO > 10 mM

B3742 Thio-TEPA

N,N',N''-triethylenethiophosphoramide (Thio-TEPA) is an alkylating agent used to treat cancer.

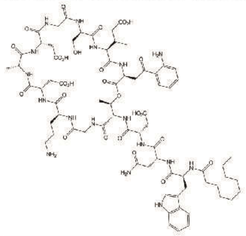


Size:1 g
Soluble in DMSO

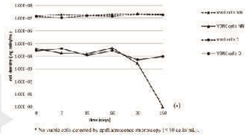
DNA Synthesis Inhibitors

A1206 Daptomycin

Daptomycin is a bactericidal antibiotic which works against a broad spectrum of Gram-positive bacteria.



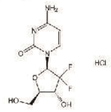
Size:5 mg,25 mg,100 mg
Limited solubility



Daptomycin extends the viability of non-culturable cells.

A1402 Gemcitabine HCl

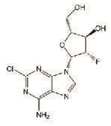
Gemcitabine HCl is an inhibitor of DNA synthesis with the IC50 value of 240.4±29.0 μM (CCRF-CEM/dCK−/− cells), 14.7±2.8 nM (TC-1 cells), 36.7 ± 5.1 μM (TC-1-GR cells), and 50 nM (PANC1 cells).



Size:5 mg,25 mg,100 mg
Limited solubility

A1412 Clofarabine

Clofarabine is a DNA synthesis inhibitor and a substrate of Deoxycytidine kinase (dCK).



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

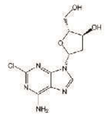
A2171 Carboplatin

Carboplatin is a DNA synthesis inhibitor.

Size:5 mg,25 mg,100 mg
Limited solubility

A2187 Cladribine

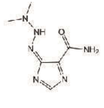
Cladribine is an adenosine deaminase inhibitor.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A2197 Dacarbazine

Dacarbazine is an antineoplastic chemotherapy drug used in the treatment of various cancers.



Size:5 mg,100 mg
Limited solubility

DNA Damage/DNA Repair

A2343 Cyclophosphamide

Cyclophosphamide is a nitrogen mustard alkylating agent and prodrug.

Size:100 mg
Soluble in DMSO > 10 mM

A2355 Mercaptopurine (6-MP)

Mercaptopurine (6-MP) is an inhibitor of de novo purine synthesis through interference with DNA and RNA synthesis.

Size:25 mg
Soluble in DMSO > 10 mM

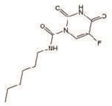
A2402 Floxuridine

Floxuridine is an antineoplastic antimetabolite.

Size:25 mg,100 mg
Soluble in DMSO > 10 mM

A2548 Carmofur

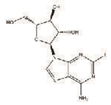
Carmofur is a cytostatic derivative of fluorouracil.



Size:5 mg,100 mg
Soluble in DMSO > 10 mM

A5424 Fludarabine

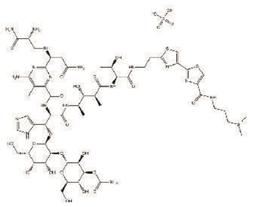
Fludarabine is a purine analog that inhibits DNA synthesis.



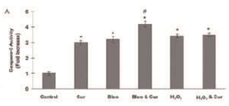
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A8331 Bleomycin Sulfate

Bleomycin sulfate (BLENOXANE®) is a mixture of cytotoxic glycopeptide antibiotics produced by a strain of streptomyces verticillus.



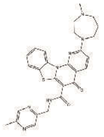
Size:10 mg,50 mg
Soluble in DMSO > 10 mM



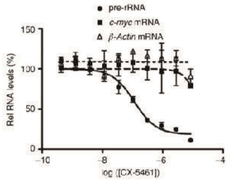
Caspase 3 activity in bleomycin treated cells.

A8337 CX-5461

CX-5461 is a potent and orally bioavailable inhibitor that specifically inhibits RNA polymerase (Pol) I-driven transcription with IC50 value of 142 nM.



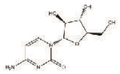
Size:5 mg,10 mg,50 mg
Limited solubility



Treatment of CX-5461 inhibits rRNA synthesis.

A8405 Cytarabine

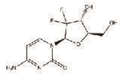
Cytarabine (AraC), an analogue of deoxycytidine, is the most effective cytotoxic agent in the treatment of acute myeloid leukemia (AML).



Size:200 mg,1 g
Limited solubility

A8437 Gemcitabine

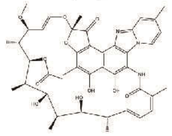
Gemcitabine is an inhibitor of DNA synthesis.



Size:100 mg,500 mg
Soluble in DMSO > 10 mM

A8512 Rifaximin (Xifaxan)

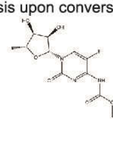
Rifaximin is an antibiotic that inhibits RNA synthesis and acts as a PXR (pregnane-X-receptor) activator.Z



Size:500 mg,1 g
Soluble in DMSO > 10 mM

A8647 Capecitabine

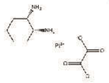
Capecitabine is a prodrug of 5-Fluorouracil (5-FU), inhibiting DNA synthesis upon conversion to 5-FU.



Size:50mg
Soluble in DMSO > 10 mM

A8648 Oxaliplatin

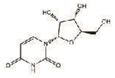
Oxaliplatin is an antitumor agent that forms platinum-DNA adducts.



Size:50 mg,100 mg,200 mg
Limited solubility

B1473 Uridine

Uridine, Trisodium Salt is an energy-rich precursor in the enzymatic biosynthesis of RNA and induces contractile responses in some tissues.



Size:50mg
Soluble in DMSO > 10 mM

B3061 CRT0044876

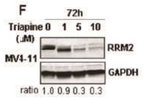
CRT0044876 is a potent and selective inhibitor of APE1 with IC50 value of 3.06 μM.

Size:20 mg,50 mg
Soluble in DMSO > 10 mM

B3209 Triapine

Triapine is a potent inhibitor of ribonucleotide reductase activity with IC50 value of 1.6 μM for various of tumor cell lines.

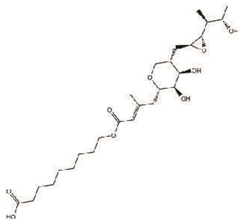
Size:10 mg,25 mg
Soluble in DMSO > 10 mM



Effect of Triapine, a RRM2 inhibitor, on the RRM2 protein level.

B4872 Mupirocin

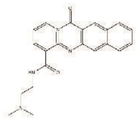
Mupirocin is an isoleucyl t-RNA synthetase inhibitor, used in the treatment of bacterial skin infections.



Size:25 mg,100 mg
Soluble in DMSO > 10 mM

B4896 BMH-21

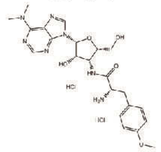
BMH-21 is a planar heterocyclic small molecule DNA intercalator with inhibition of Pol I activity at IC50: 0.06 μM.



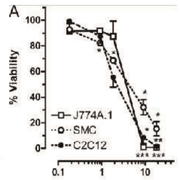
Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

B7587 Puromycin dihydrochloride

Puromycin dihydrochloride is an analog of aminoacyl-tRNA which inhibits the incorporation of aminoacyl-tRNA into the C-terminal on a synthesizing polypeptide.



Size:50 mg
Soluble in DMSO > 10 mM

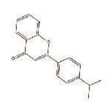


Effect of puromycin on the viability of macrophages and SMCs

Tankyrase Inhibitor

B5983 MN 64

MN-64 is a type of flavone that act as a potent and selective tankyrase inhibitor with IC50 value of 6 and 72 nM for TNKS1 and TNKS2, respectively.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

Topoisomerase Inhibitors

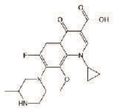
Potency Comparison

Inhibitors	Topoisomerase I	Topoisomerase II	Topo IV (Topo II alpha)
(S)-10-Hydroxycamptothecin		*	
Amonafide		*	
Beta-Lapachone		*	
Camptothecin	** (IC_{50}:679 nM)		
Doxorubicin		*	
Doxorubicin (Adriamycin) HCl		*	
Ellagic acid	** (IC_{50}:0.6 μM)	** (IC_{50}:0.7 μM)	
Epirubicin HCl		*	
Etoposide		* (IC_{50}:59.2 μM)	
Gatifloxacin		*	*
Genistein		*	
Idarubicin HCl		*	
Irinotecan	*		
Irinotecan HCl Trihydrate		*	
Moxifloxacin HCl		*	*
Ofloxacin		*	*
Teniposide		*	
Topotecan	**** (IC_{50}:2 nM)		
Topotecan HCl		*	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1313 Gatifloxacin

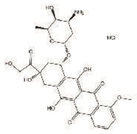
Gatifloxacin, a fluoroquinolone antibiotic, inhibits bacterial type II topoisomerases with IC50 values of 0.109 and 13.8 μg/ml for E.coli DNA gyrase and S.aureus topoisomerase IV respectively.



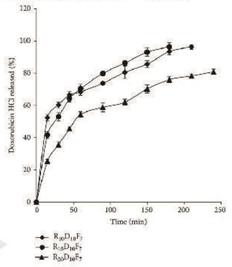
Size:5 mg,100 mg
Limited solubility

A1832 Doxorubicin (Adriamycin) HCl

Doxorubicin is an antitumor antibiotic agent and shows inhibition against DNA topoisomerase II.



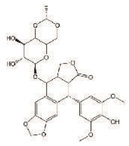
Size:10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



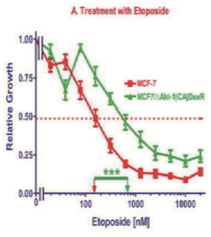
Doxorubicin HCl release profile.

A1971 Etoposide

Etoposide (VP-16) is the first agent recognized as a topoisomerase II inhibitor of anticancer drug with IC50 of 59.2 μM.



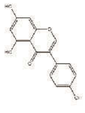
Size:100 mg
Soluble in DMSO > 10 mM



Effect of Etoposide/Rapamycin cotreatment on Etoposide IC50s.

A2198 Genistein

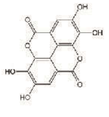
Genistein inhibits protein tyrosine kinases including epidermal growth factor receptor kinase.



Size:100 mg
Soluble in DMSO > 10 mM

A2306 Ellagic acid

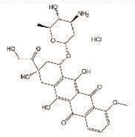
Ellagic acid is a selective ATP-competitive inhibitor of casein kinase 2 (CK2). IC50 values are 40, 2900, 3500, 4300 and 9400 nM for CK2, Lyn, PKA, Syk and FGR, respectively.



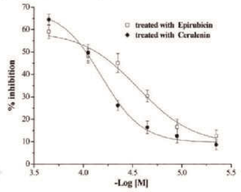
Size:25mg
Limited solubility

A2451 Epirubicin HCl

Epirubicin is an inhibitor of DNA topoisomerase (TOPII).



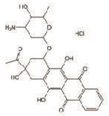
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



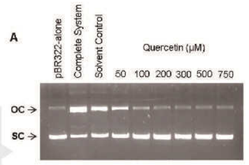
Inhibitory effect of epirubicin on the growth of U2-OS cells.

A2476 Idarubicin HCl

Idarubicin is an inhibitor of DNA topoisomerase II.



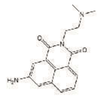
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



pBR322 DNA single-strand breaks were generated by idarubicin.

A2782 Amonafide

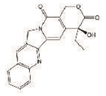
Amonafide is a novel topoisomerase II inhibitor with IC50 of 4.67, 2.73, and 6.38 for HT-29, HeLa, and PC3 cells, respectively.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A2877 Camptothecin

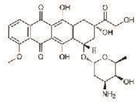
Camptothecin is a selective inhibitor of topoisomerase I with IC50 value of 679 nM.



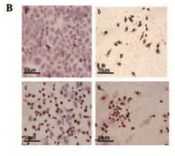
Size:250 mg
Limited solubility

A3966 Doxorubicin

Doxorubicin (Adriamycin) is an antibiotic agent, inhibitor of DNA topoisomerase II and inducer of DNA damage and apoptosis.



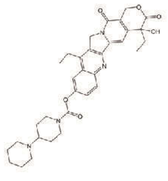
Size:10 mg,25 mg
Soluble in DMSO



Doxorubicin induces HepG2 cell apoptosis.

A5133 Irinotecan

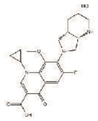
(+)-Irinotecan is an isomer of the Topo I inhibitor Irinotecan.



Size:100 mg
Limited solubility

A5323 Moxifloxacin HCl

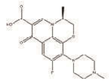
Moxifloxacin HCl is anti-infective compound with a broad antibacterial spectrum.



Size:100 mg
Soluble in DMSO > 10 mM

A5511 Ofloxacin

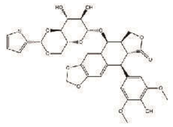
Ofloxacin is a fluorinated quinolone antibacterial, inhibiting DNA gyrase, a Topo II (topoisomerase II) and Topo IV (Topo II alpha).



Size:100 mg
Limited solubility

A8532 Teniposide

Teniposide is a glycoside-derivative of podophyllotoxin. Has cytostatic effect. Inhibits topoisomerase II while induces apoptosis.



Size:25 mg,50 mg
Soluble in DMSO > 10 mM

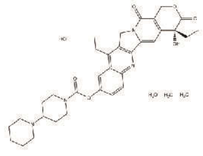
B2290 Beta-Lapachone

Beta-Lapachone is a selective inhibitor of DNA topoisomerase I.

Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B2293 Irinotecan HCl Trihydrate

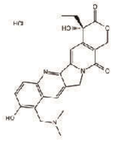
Irinotecan HCl Trihydrate (CPT-11) is a semisynthetic derivative of camptothecin with IC50 value of 3.4 μM in P388 leukemia.



Size:250 mg,500 mg,1 g
Soluble in DMSO > 10 mM

B2296 Topotecan HCl

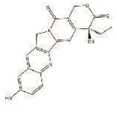
Topotecan HCl（SKF104864）is an inhibitor of topoisomerase 1 and semisynthetic analogue of camptothecin.



Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

B4745 (S)-10-Hydroxycamptothecin

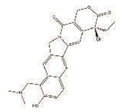
10-Hydroxycamptothecin is an inhibitor of DNA topoisomerase I with potent anti-tumor activity.



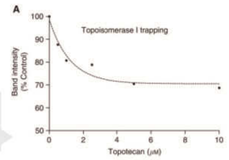
Size:25 mg,100 mg
Soluble in DMSO > 10 mM

B4982 Topotecan

Topotecan (SKF104864) is an inhibitor of topoisomerase 1 and semisynthetic analogue of camptothecin.



Size:10 mg,50 mg,100 mg
Soluble in DMSO

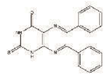


Topotecan rapidly enters MCF-7 cells to trap topoisomerase I.

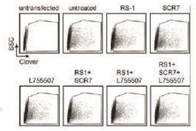
DNA Ligase Inhibitor

A8705 SCR7

SCR7 is a DNA ligase IV inhibitor, initially identified as an anti-cancer agent.



Size:5 mg,25 mg
Soluble in DMSO

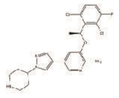


Testing HDR enhancement by SCR7.

MTH1 Inhibitor

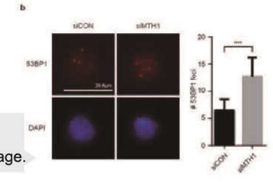
A8802 (S)-Crizotinib

(S)-crizotinib, the (S)-enantiomer of crizotinib, is a potent inhibitor of the human mutT homologue MTH1 (NUDT1) with an IC50 value of 72 nM.



Size:5 mg,50 mg
Soluble in DMSO > 10 mM

Product Citation:
J Proteome Res. (2014)
PMID: 25230287



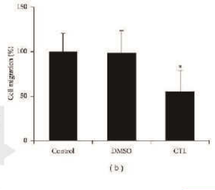
MTH1 suppression by siRNA or (S)-crizotinib induces DNA damage.

Telomerase Inhibitor

A3327 Costunolide

Costunolide, a sesquiterpene lactone, exhibits anti-inflammatory and anti-oxidant properties and mediates apoptosis with IC50 Value of 6.2 - 9.8 μg/mL in sarcoma cells.

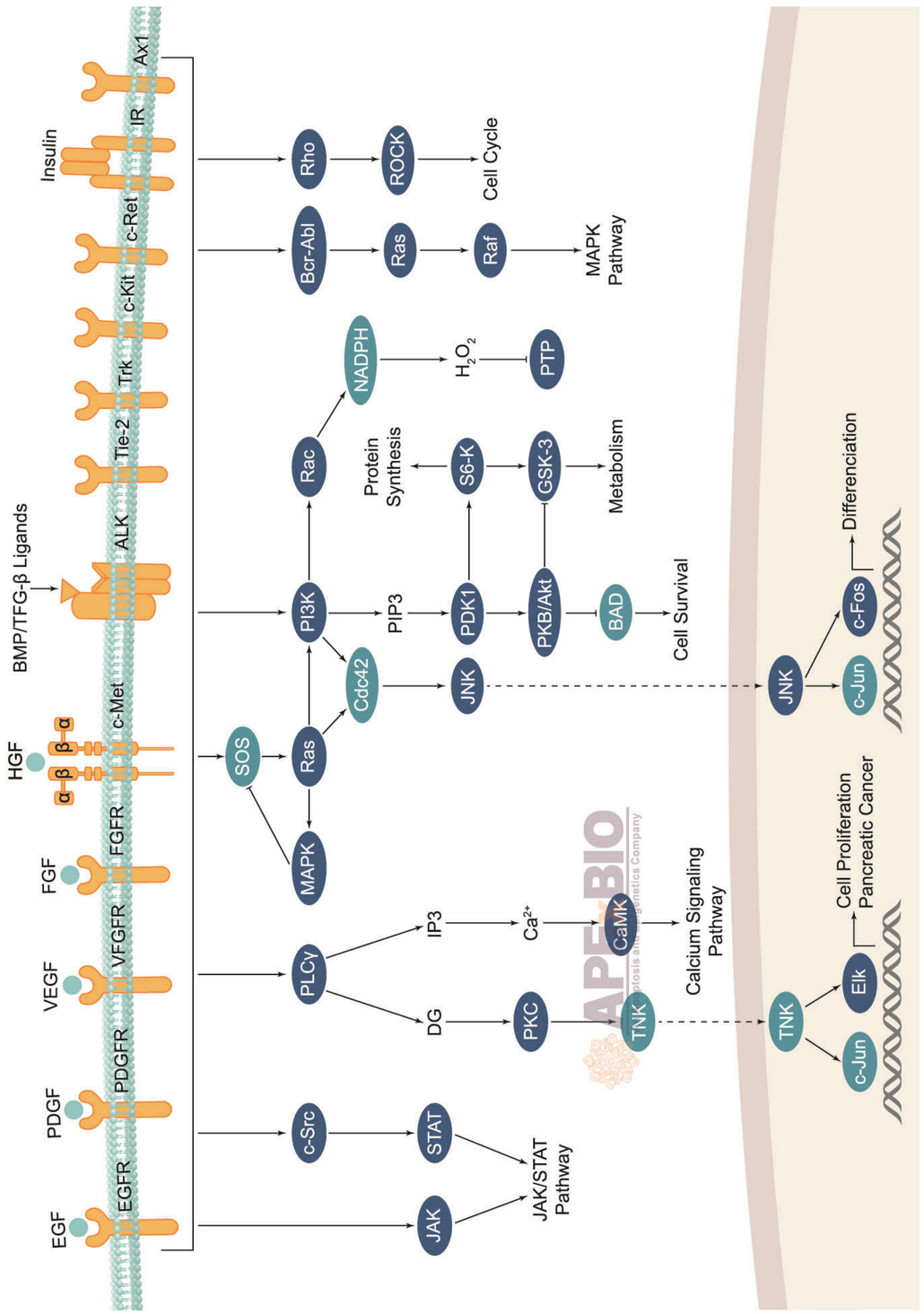
Size:5 mg,10 mg
Soluble in DMSO



Costunolide inhibits TNFα-induced MDA-MB-231 cell migration.

DNA Damage/DNA Repair

Tyrosine Kinase



ALK Inhibitors

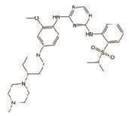
Potency Comparison

Inhibitors	Pan-ALK	ALK (L1196M)	ALK (F1174L)	ALK (R1275Q)
ASP3026	**** (IC_{50}:3.5 nM)			
AZD-3463	***** (Ki:0.75 nM)			
CH5424802	**** (IC_{50}:1.9 nM)		***** (IC_{50}:1 nM)	**** (IC_{50}:3.5 nM)
GSK1838705A	***** (IC_{50}:0.5 nM)			
LDK378	***** (Ki:0.2 nM)			
PF-06463922	***** (Ki: <0.07 nM)	***** (Ki:0.7 nM)		
TAE684 (NVP-TAE684)	**** (IC_{50}:3 nM)			
(R)-Crizotinib	*** (IC_{50}:24 nM)			
AP26113	***** (IC_{50}:0.62 nM)			

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3193 ASP3026

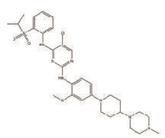
ASP3026 is a selective inhibitor of ALK with IC50 value of 3.5 nM.



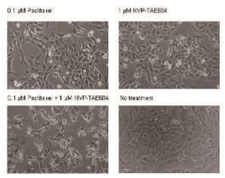
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

A8251 TAE684 (NVP-TAE684)

TAE684 (NVP-TAE684) is a selective inhibitor of ALK with IC50 value of 3 nM.



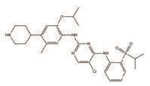
Size:5 mg,10 mg,50 mg,100 mg
Limited solubility



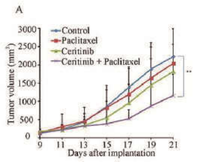
NVP-TAE684 and paclitaxel induce cell death in KHOSR2.

A8328 LDK378

LDK378 is a highly potent inhibitor of anaplastic lymphoma kinase (ALK) with IC50 of 200 pM.



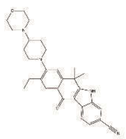
Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



Ceritinib enhanced the anticancer effect of paclitaxel.

A8393 CH5424802

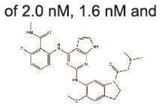
Alectinib (CH5424802) is a potent inhibitor of ALK with an IC50 value of 1.9 nM.



Size:5 mg,50 mg
Limited solubility

A8440 GSK1838705A

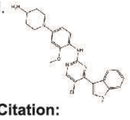
GSK1838705A is a potent inhibitor of IGF-1R,IR and ALK with IC50 values of 2.0 nM, 1.6 nM and 0.5 nM, respectively.



Size:5 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

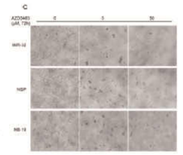
A8620 AZD-3463

AZD3463 is a novel orally bioavailable inhibitor of ALK with a Ki value of 0.75 nM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

Product Citation:
Sci Rep. (2016) PMID: 26786851



AZD3463 shows cytotoxic effects on NB cell lines.

B4882 PF-06463922

PF-06463922 is a potent and selective next-generation ROS1/ALK inhibitor.

Size:5 mg,25 mg
Soluble in DMSO > 10 mM

Axl Inhibitors

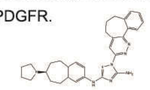
Potency Comparison

Inhibitors	Axl
LDC1267	*** (IC_{50}:29 nM)
R428	*** (IC_{50}:14 nM)
Cabozantinib (XL184, BMS-907351)	**** (IC_{50}:7 nM)
BMS-777607	**** (IC_{50}:1.1 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

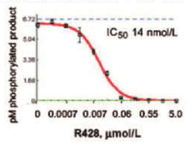
A8329 R428

R428 is a selective Axl inhibitor with an IC50 of 14 nM, more than 50-fold sensitivity for Axl than Abl, Mer, Tyro3, InsR, EGFR, HER2, and PDGFR.



Size:1 mg,5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

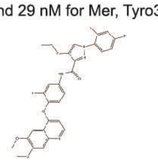
Product Citation:
Cell Host Microbe. (2016)
PMID: 27443522



Dose-dependent activity of R428.

B4893 LDC1267

LDC1267 is a highly selective TAM kinase inhibitor with IC50 of < 5 nM, 8 nM, and 29 nM for Mer, Tyro3, and Axl, respectively.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

Bcr-Abl Inhibitors/Activator

Potency Comparison

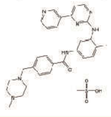
Inhibitors	Bcr-Abl	Bcr-Abl (T315I)	p210 Bcr-Abl	Abl
GZD824	***** (IC_{50}:0.34 nM)	***** (IC_{50}:0.68 nM)		
Bosutinib (SKI-606)				***** (IC_{50}:1 nM)
Dasatinib (BMS-354825)				***** (IC_{50}:0.6 nM)
GNF 2	** (IC_{50}:267 nM)			
GNF 5	** (IC_{50}:220 nM)			
Imatinib Mesylate (STI571)				** (IC_{50}:600 nM)
Nilotinib(AMN-107)	*** (IC_{50}:30 nM)			
Ponatinib (AP24534)				***** (IC_{50}:0.37 nM)
Saracatinib (AZD0530)				*** (IC_{50}:30 nM)
1-Naphthyl PP1				** (IC_{50}:0.6 μM)
PD 180970			** (IC_{50}:170 nM)	
PD 173955	**** (IC_{50}:1-2 nM)			
ON 146040	*			
Bafetinib (INNO-406)	**** (IC_{50}:5.8 nM)			
DCC-2036 (Rebastinib)	***** (IC_{50}:0.8 nM)			

Activator	Bcr-Abl	Bcr-Abl (T315I)	p210 Bcr-Abl	Abl
DPH				*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1805 Imatinib Mesylate (STI571)

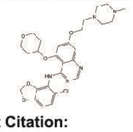
Imatinib Mesylate (STI571), an orally bioavailability mesylate salt of Imatinib, is a multi-target inhibitor of v-Abl, c-Kit and PDGFR with IC50 of 0.6 μM, 0.1 μM and 0.1 μM, respectively.



Size:100 mg
Soluble in DMSO > 10 mM

A2133 Saracatinib (AZD0530)

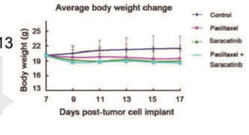
Saracatinib (AZD0530) is a novel, potent Src family kinase (SFK)/Abl dual-kinase inhibitor with IC50 value of 2.7 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

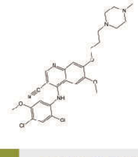
Product Citation:
Cancer Lett. (2016) PMID: 27195913

Saracatinib increase the antitumor effects of paclitaxe.



A2149 Bosutinib (SKI-606)

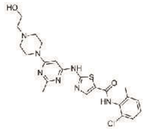
Bosutinib (SKI-606) is a potent dual inhibitor of c-Src and Abl with IC50 values of 1.2 nM and 1 nM, respectively.



Size:5 mg,100 mg
Soluble in DMSO > 10 mM

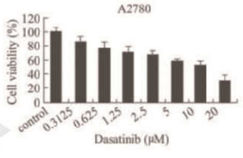
A3017 Dasatinib (BMS-354825)

Dasatinib (BMS-354825) is a small-molecule inhibitor of both the Src and Bcr-Abl tyrosine kinases with IC50 values of 0.5 nM and 1 nM.



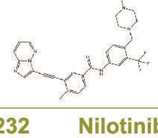
Size:100 mg,500 mg
Soluble in DMSO > 10 mM

Dasatinib enhanced the paclitaxel-associated cytotoxicity.



A5467 Ponatinib (AP24534)

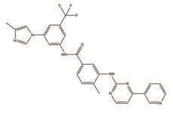
Ponatinib (AP24534) is a novel, potent multi-target inhibitor of Abl, PDGFRα, VEGFR2, FGFR1 and Src with IC50 of 0.37 nM, 1.1 nM, 1.5 nM, 2.2 nM and 5.4 nM, respectively.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A8232 Nilotinib (AMN-107)

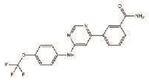
Nilotinib (AMN-107) is an inhibitor of Bcr-Abl with IC50 less than 30 nM.



Size:100 mg,250 mg,500 mg,1 g
Soluble in DMSO > 10 mM

A8603 GNF 2

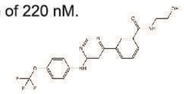
GNF-2 is a highly selective non-ATP competitive inhibitor of Bcr-Abl with an IC50 value of 100 to 300 nM in various cell lines.



Size:5 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A8604 GNF 5

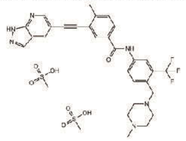
GNF-5 is a selective and allosteric inhibitor of Bcr-Abl with an IC50 value of 220 nM.



Size:10 mg,25 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

B1402 GZD824

GZD824 is an orally bioavailable inhibitor of Bcr-Abl with IC50 values of 0.34 and 0.68 nM for Bcr-AblWT and Bcr-AblT315I, respectively.

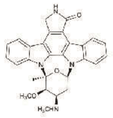


Size:5 mg,25 mg
Soluble in DMSO > 10 mM

Broad Spectrum Protein Kinase Inhibitor

A8192 Staurosporine

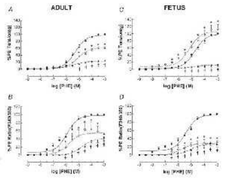
Staurosporine is a potent inhibitor of PKC for PKCα, PKCγ and PKCη with IC50 values of 2 nM, 5 nM and 4 nM,respectively.



Size:1 mg,5 mg,10 mg
Limited solubility

Product Citation:
PLoS One. (2014) PMID: 25188024

PHE dose-response relations for MCA with staurosporine.



c-Kit Inhibitors

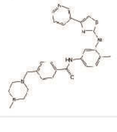
Potency Comparison

Inhibitors	Axl
Imatinib (STI571)	*** (IC_{50}:100 nM)
Masitinib (AB1010)	** (IC_{50}:200 nM)
Amuvatinib (MP-470, HPK 56)	**** (IC_{50}:10 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A2942 Masitinib (AB1010)

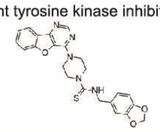
Masitinib (AB1010) is a potent and selective inhibitor of tyrosine kinases with IC50 values of 200 nM, 540 nM and 800 nM for KIT, PDGFRα and PDGFRβ, respectively.



Size:10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A4237 Amuvatinib (MP-470, HPK 56)

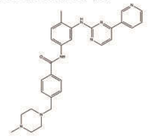
Amuvatinib (MP-470, HPK 56), a synthetic carbothioamide, is a novel and potent tyrosine kinase inhibitor.



Size:2 mg,5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

B2171 Imatinib (STI571)

Imatinib (STI571) is an inhibitor of protein-tyrosine kinase with IC50 values of 0.1 μM, 0.1 μM and 0.6 μM, respectively against PDGF receptor, c-Kit and c-Abl.



Size:250 mg,500 mg
Limited solubility

c-MET Inhibitors

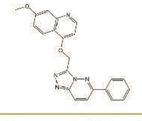
Potency Comparison

Inhibitors	c-MET
MGCD-265	***** (IC_{50}:1 nM)
(R)-Crizotinib	*** (IC_{50}:11 nM)
AMG-208	**** (IC_{50}:9.3 nM)
BMS-777607	**** (IC_{50}:3.9 nM)
Cabozantinib (XL184, BMS-907351)	**** (IC_{50}:1.3 nM)
EMD-1214063	**** (IC_{50}:4 nM)
Golvatinib (E7050)	*** (IC_{50}:14 nM)
INCB28060	***** (IC_{50}:0.13 nM)
JNJ-38877605	**** (IC_{50}:4 nM)
LY2801653	**** (Ki:2 nM)
PF-04217903	**** (IC_{50}:4.8 nM)
PHA-665752	**** (IC_{50}:9 nM)
SGX-523	**** (IC_{50}:4 nM)
SU11274	**** (IC_{50}:10 nM)
Tivantinib (ARQ 197)	** (Ki:0.355 μM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1186 AMG-208

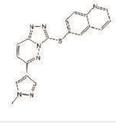
AMG-208 is a highly selective c-Met inhibitor with IC50 value of 9.3 nM.



Size:5 mg,25 mg,100 mg
Limited solubility

A1196 SGX-523

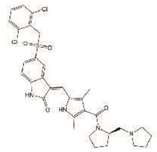
SGX-523 is a novel, potent, ATP-competitive, and highly-selective MET inhibitor with IC50 value of 4 nM.



Size:5 mg,25 mg,100 mg
Limited solubility

A2307 PHA-665752

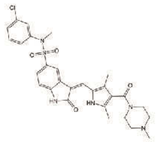
PHA-665752 is a potent, ATP-competitive and specific c-Met receptor tyrosine kinase inhibitor with Ki value of 4 nM and IC50 value of 9 nM.



Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A2678 SU11274

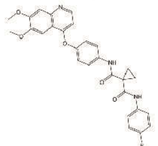
SU11274 is a potent and selective inhibitor of Met kinase with IC50 value of 10 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A2977 Cabozantinib (XL184, BMS-907351)

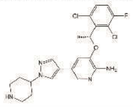
Cabozantinib (XL184, BMS-907351 Cometriq) is an inhibitor of RTKs, including VEGFR2, MET, and RET with IC50 values of 0.035, 1.3 and 5.2 nM, respectively.



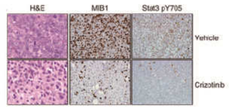
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A3020 (R)-Crizotinib

Crizotinib is a potent, ATP-competitive, small-molecule and orally available inhibitor of c-Met kinase with a Ki value of 4 nmol/L.



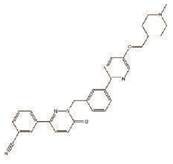
Size:10 mg,50 mg,100 mg
Limited solubility



Immunohistochemical analysis of crizotinib-treated tumor xenografts.

A3388 EMD-1214063

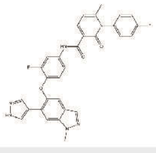
EMD-1214063 is a selective inhibitor of c-Met with IC50 value of 4 nM.



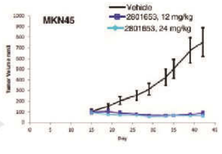
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

A3573 LY2801653

LY2801653 is a potent and orally bioavailable inhibitor of c-MET kinase with IC50 value of 2 nM.



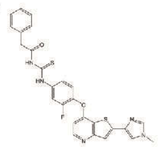
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO



In vivo anti-tumor effect of LY2801653 in mouse xenograft models

A5057 MGCD-265

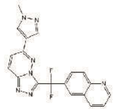
MGCD-265 is a multi-target and ATP-competitive inhibitor of c-Met and VEGFR1, 2, 3 with IC50 values of 1 nM, 3 nM, 3 nM and 4 nM, respectively.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A5092 JNJ-38877605

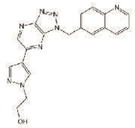
JNJ-38877605 is a small-molecule ATP-competitive inhibitor of the catalytic activity of c-Met.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A5096 PF-04217903

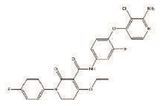
PF-04217903 is an ATP-competitive small-molecule inhibitor of c-Met kinase with Ki value of 4.8 nM.



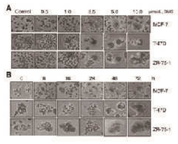
Size:5 mg,25 mg,100 mg
Limited solubility

A5703 BMS-777607

BMS 777607 is a novel, selective and orally available ATP-competitive MET kinase inhibitor with IC50 values of 1.8, 3.9, 4.3 and 1.1 nM for RON, MET, Tyro-3 and Axl respectively.



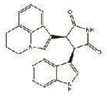
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



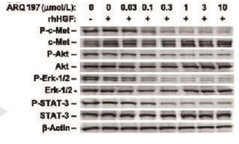
Treatment of BMS-777607 induces polyploidy.

A8325 Tivantinib (ARQ 197)

Tivantinib (ARQ 197) is an oral, non–adenosine triphosphate-competitive, selective, small-molecule met proto-oncogene (c-MET) inhibitor.



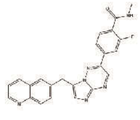
Size:5 mg,20 mg,100 mg
Soluble in DMSO > 10 mM



ARQ 197 inhibits c-Met phosphorylation and signal transduction.

A8448 INCB28060

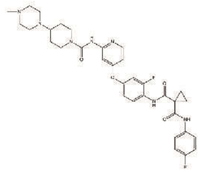
INCB28060, also known as Capmatinib and INC280, is a novel and ATP-competitive inhibitor of c-Met with IC50 of 0.13 nM.



Size:10 mg,50 mg,100 mg
Limited solubility

B1439 Golvatinib (E7050)

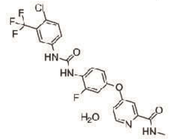
Golvatinib is an inhibitor of c-Met and VEGFR-2 tyrosine kinase with IC50 values of 14 nM and 16 nM, respectively.



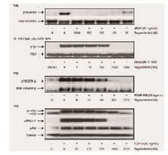
Size:10 mg,20 mg,50 mg,100 mg,200 mg
Soluble in DMSO > 10 mM

A8236 Regorafenib

Danusertib (PHA-739358) is an inhibitor of Aurora kinase for Aurora A/B/C with IC50 of 13 nM/79 nM/61 nM, modestly potent to Abl, TrkA, c-RET and FGFR1, and less potent to Lck, VEGFR2/3, c-Kit, CDK2, etc.



Size:10 mg,50 mg,100 mg,200 mg
Soluble in DMSO > 10 mM



Regorafenib inhibits multiple target kinases.

c-RET Inhibitors

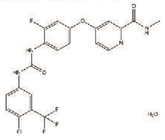
Potency Comparison

Inhibitors	RET
Danusertib (PHA-739358)	*** (IC_{50}:31 nM)
Regorafenib	**** (IC_{50}:1.5 nM)
Regorafenib monohydrate	***** (IC_{50}:1.5 nM)
TG101209	*** (IC_{50}:17 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3751 Regorafenib monohydrate

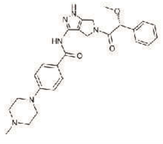
Regorafenib monohydrate is a multitargeted inhibitor of tyrosine kinase with IC50 values of 13, 4.2, 46, 2.5, 28, 19, 22, 7 and 1.5, respectively for VEGFR-1, mVEGFR-2, mVEGFR-3, Raf-1, BRAF WT, BRAFV600E, PDGFR-β, c-KIT and RET



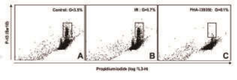
Size:25 mg,50 mg,500 mg
Soluble in DMSO

A4116 Danusertib (PHA-739358)

Danusertib (PHA-739358) is a potent small-molecule inhibitor of aurora kinases family members with a dominant inhibition for ABK.



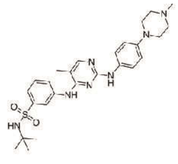
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



Treatment of Danusertib reduces pH3 phosphorylation.

A4145 TG101209

TG101209 is a selective inhibitor of janus kinase 2 (Jak2) that potently inhibits Jak/Stat pathway in multiple myeloma (MM) cell lines.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

CSF-1R Inhibitors

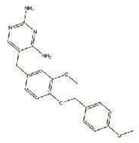
Potency Comparison

Inhibitors	CSF-1R
BLZ945	**** (IC_{50}:1.2 nM)
GW2580	*** (IC_{50}:30 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1655 GW2580

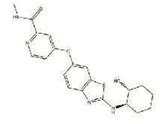
GW2580 is a selective and orally bioavailable inhibitor of Colony-stimulating-factor-1 receptor (CSF-1R) with IC50 value of 30 nM.



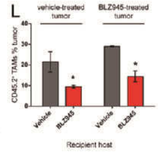
Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

B4899 BLZ945

BLZ945 is a small molecule inhibitor of CSF-1R kinase with IC50 value of 1.2 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

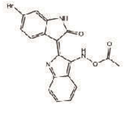


BLZ945 obstructs the recruitment of de novo TAMs from the host.

Glycogen Synthase Kinase 3 Inhibitor

B5488 BIO-acetoxime

BIO-acetoxime is a potent and selective GSK-3α/β inhibitor with IC50 value of 10 nM.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

EGFR Inhibitors

Potency Comparison

Inhibitors	ErbB1 (EGFR,HER1)	ErbB2 (HER2)	ErbB3 (HER3)	ErbB4 (HER4)	Exon 19 deletion EGFR	L858R/ T790M EGFR	T790M EGFR	L858R EGFR	EGFR (E746_A750)
AC480	*** (IC_{50}:20 nM)	*** (IC_{50}:30 nM)							
AEE788	**** (IC_{50}:2 nM)	**** (IC_{50}:6 nM)							
Afatinib	***** (IC_{50}:0.5 nM)	*** (IC_{50}:14 nM)				*** (IC_{50}:10 nM)		***** (IC_{50}:0.4 nM)	
AG-1478	**** (IC_{50}:3 nM)	* (IC_{50}: >100 μM)							
AG-18	* (IC_{50}:35 μM)								
AG-490	** (IC_{50}:0.1 μM)	* (IC_{50}:13.5 μM)							
AP26113							*		
AST-1306	***** (IC_{50}:0.5 nM)	***** (IC_{50}:3 nM)		***** (IC_{50}:0.8 nM)		*** (IC_{50}:12 nM)			
AZ5104	*** (IC_{50}:25 nM)								
AZD3759	**** (IC_{50}:7-7.7 nM)								
AZD8931	**** (IC_{50}:4 nM)	***** (IC_{50}:3 nM)	* (IC_{50}:4 nM)						
AZD-9291	** (IC_{50}:493.8 nM)				*** (IC_{50}:12.92 nM)	*** (IC_{50}:11.44 nM)			
BIBF 1120									
Butein	*								
Canertinib	***** (IC_{50}:0.8 nM)	*** (IC_{50}:19 nM)		**** (IC_{50}:7 nM)					
CO-1686	** (IC_{50}:303.3 nM)					*** (IC_{50}:21.5 nM)			
Compound 56	***** (IC_{50}:0.006 nM)								
CP-724714	* (IC_{50}:6,400±2,100 nM)	*** (IC_{50}:10±3 nM)							
Dacomitinib	**** (IC_{50}:6 nM)	*** (IC_{50}:45.7 nM)		*** (IC_{50}:73.7 nM)					
Erlotinib	**** (IC_{50}:2 nM)								
Erlotinib hydrochloride	**** (IC_{50}:2 nM)								
Gefitinib	*** (EC_{50}:26-57 nM)								
Lapatinib	*** (IC_{50}:10.8 nM)	**** (IC_{50}:9.2 nM)							
Lapatinib Ditosylate	*** (IC_{50}:10.8 nM)	**** (IC_{50}:9.2 nM)							
Neratinib	*** (IC_{50}:92 nM)	*** (IC_{50}:59 nM)							
PD153035 hydrochloride	***** (IC_{50}:0.029 nM) (Ki:0.0052 nM)								
PD168393	***** (IC_{50}:0.7 nM)								
Pelitinib	*** (IC_{50}:38.5 nM)								
WZ4002						**** (IC_{50}:8 nM)		**** (IC_{50}:2 nM)	
WZ8040							**** (IC_{50}: <10 nM)		
WZ3146								**** (IC_{50}:2 nM)	**** (IC_{50}:2 nM)
TAK-285	*** (IC_{50} :23 nM)	*** (IC_{50}:17 nM)		** (IC_{50}:260 nM)					

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

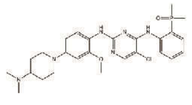
A1173 AG-18

AG18 is an inhibitor of EGFR kinase with IC50 value of 35 μM.

Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A1367 AP26113

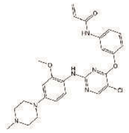
AP26113 is a novel, synthetic and orally available small-molecule inhibitor of ALK with IC50 ranging from 5 nM to 11 nM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A1389 WZ4002

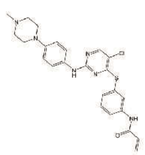
WZ4002 is a novel, mutant-selective inhibitor of EGFR for EGFR (L858R)/(T790M) with IC50 of 2 nM/8 nM.



Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A1393 WZ8040

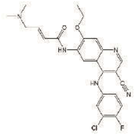
WZ8040 is an irreversible inhibitor of EGFR T790M with IC50 value of < 10 nM.



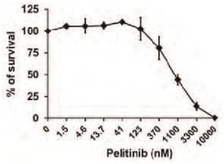
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A1835 Pelitinib (EKB-569)

Pelitinib (EKB-569) is a potent,irreversible inhibitor of EGFR tyrosine kinase with IC50 value of 38.5 nM in vitro.



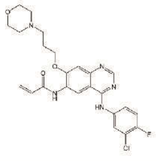
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



Pelitinib induces apoptosis in melanoma cells.

A1845 Canertinib (CI-1033)

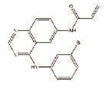
Canertinib is an irreversible quinazoline-based inhibitor of HER family tyrosine kinases with IC50 values of 0.8, 19 and 7 nM for EGFR, HER2 and HER4, respectively.



Size:10 mg,25 mg,100 mg
Limited solubility

A2024 PD168393

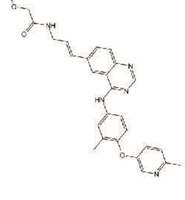
PD168393 is a potent, cell-permeable, irreversible inhibitor of EGFR with IC50 value of 700 pM.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

A2412 CP-724714

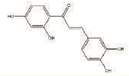
CP-724714 is an inhibitor of erbB2 and EGFR kinases with IC50 values of 10±3 nmol/L and 6,400±2,100 nmol/L, respectively.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A2689 Butein

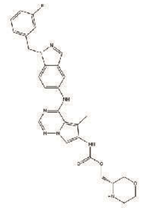
Butein is an inhibitor of 5-lipoxygenase, enoyl-acyl-carrier protein reductase (P. falciparum), angiotensin-converting enzyme and Src kinase with Ki values of 0.01, 2.97, 0.73 and 65 μM, respectively.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A2822 AC480 (BMS-599626)

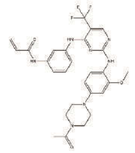
AC480 (BMS-599626) is a potent, selective inhibitor of HER1 and HER2 with IC50 values of 20 nM and 30 nM, respectively.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A3320 CO-1686 (AVL-301)

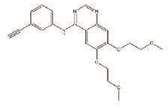
CO-1686 is an irreversible and orally delivered inhibitor of mutant EGFR with IC50 value of < 0.51 nM for recombinant EGFR L858R/T790M.



Size:5 mg,10 mg,50 mg,100mg
Soluble in DMSO > 10 mM

A3397 Erlotinib

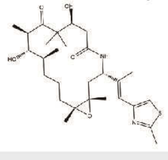
Erlotinib inhibits purified EGFR tyrosine kinase and EGFR autophosphorylation intact cells with IC50 values of 2 nM and 20 nM, respectively.



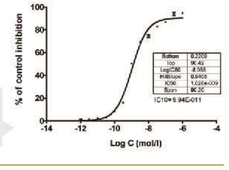
Size:100 mg,500 mg
Soluble in DMSO

A3513 Ixabepilone

Ixabepilone (Azaepothilone B; BMS 247550; BMS 247550-1; Ixempra) is an epothilone B analog and nontaxane microtubule-stabilizing compound with clinical activity in a range of solid tumors.



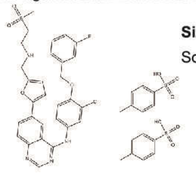
Size:5 mg
DMSO



Dose-response curve of cell inhibition of Ixempra on MDA-MB-453.

A3967 Lapatinib Ditosylate

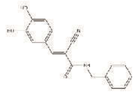
Lapatinib Ditosylateis a selective dual inhibitor of ErbB-2 and EGFR with IC50 value against ErbB-2 and EGFR of 9.8 and 10.2 nM in vitro, respectively.



Size:10 mg,25 mg
Soluble in DMSO

A4139 AG-490

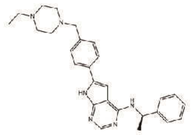
AG-490 is an inhibitor of tyrosine kinases that inhibits HER1 and HER2 with IC50 values of 0.1 μM and 13.5 μM, respectively.



Size:10 mg,25 mg
Soluble in DMSO

A5455 AEE788 (NVP-AEE788)

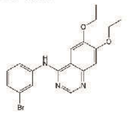
AEE788 is a potent inhibitor of EGFR and HER2 (IC50: 2 nM and 6 nM).



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A8197 Compound 56

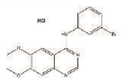
Compound 56, 4-[(3-Bromophenyl)amino]-6,7-diethoxyquinazoline, is a potent and specific inhibitor of the tyrosine kinase of the EGFR with an IC50 of 0.006 nM.



Size:500 μg,5 mg
Soluble in DMSO

A8199 PD153035 hydrochloride

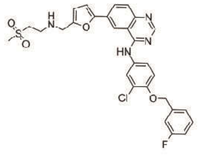
PD153035 is a potent and specific inhibitor of EGFR with Ki and IC50 of 5.2 pM and 29 pM.



Size:10 mg,50 mg
Limited solubility

A8218 Lapatinib

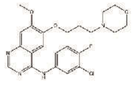
Lapatinib is a potent inhibitor of EGFR and ErbB2 with IC50 of 10.8 and 9.2 nM, respectively.



Size:50 mg,100 mg
Soluble in DMSO > 10 mM

A8219 Gefitinib (ZD1839)

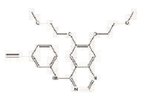
Gefitinib (ZD-1839) is an inhibitor of EGFR for Tyr1173, Tyr992, Tyr1173 and Tyr992 in the NR6wtEGFR and NR6W cells with IC50 of 37 nM, 37nM, 26 nM and 57 nM, respectively.



Size:100 mg,250 mg
Soluble in DMSO > 10 mM

A8234 Erlotinib hydrochloride

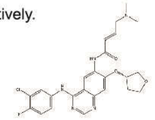
Erlotinib HCl (OSI-744) is an inhibitor of EGFR with IC50 of 2 nM, >1000-fold more sensitive for EGFR than human c-Src or v-Abl.



Size:1 g,5 g
Limited solubility

A8247 Afatinib (BIBW2992)

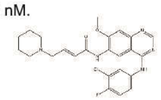
Afatinib (BIBW2992) downregulates ErbB signalling by binding to the kinase domains of EGFR/HER2 with IC50 of 0.5 nM and 14 nM, respectively.



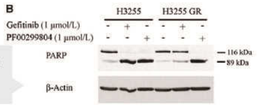
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A8319 Dacomitinib (PF299804, PF299)

PF-299804 is a potent, irreversible inhibitor of ErbB for EGFR with IC50 of 6 nM.



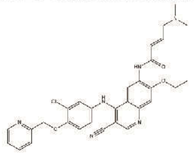
Size:5 mg,25 mg
Soluble in DMSO > 10 mM



Treatment of Dacomitinib induces apoptosis.

A8322 Neratinib (HKI-272)

Neratinib (HKI-272) is a highly selective inhibitor of HER2 and EGFR with IC50 of 59 nM and 92 nM, respectively.



Size:5 mg,25 mg
Limited solubility

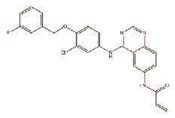
A8357 AG-1478

AG-1478 is an inhibitor of EGFR which acts on EGF-stimulated Erk1/2 phosphorylation with IC50 value of 10 uM using ovarian cell line Ishikawa.

Size:5 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A8367 AST-1306

AST1306 is a novel inhibitor of EGFR and HER2 (IC50 = 0.5 nM and 3 nM respectively).



Size:5 mg,10 mg,50 mg
Soluble in DMSO

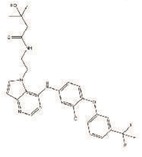
A8375 AZD8931 (Sapitinib)

AZD8931 is a reversible, ATP competitive inhibitor of EGFR, ErbB2 and ErbB3 with IC50 values of 4 nM, 3 nM and 4 nM, respectively.

Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A8528 TAK-285

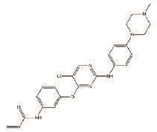
TAK-285 is a novel dual inhibitor of HER2 and EGFR(HER1) with IC50 values of 17 nM and 23 nM, respectively.



Size:5 mg,10 mg
Soluble in DMSO > 10 mM

A8881 WZ3146

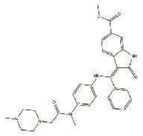
WZ3146 is a novel, irreversible inhibitor that specifically inhibits phosphorylation of EGFR (L858R0) and EGFR (E746_A750) with IC50 values of 2 nM each.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

B1022 BIBF 1120

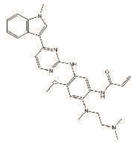
BIBF 1120 (Nintedanib) is a potent inhibitor of VEGFR-1, 2, 3, PDGFR-1,2,3, FGFR–α, β, Flt-3 and Lck with IC50 values of 34, 21, 13, 69, 37, 108, 59, 65, 26 and 16 nmol/L, respectively.



Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

B1104 AZD-9291

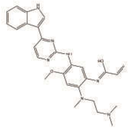
AZD-9291 is an irreversible inhibitor of mutant EGFR kinase with IC50 values of 15, 17 and 480 nM, respectively for L858R/T790M, ex19del and wild-type EGFR.



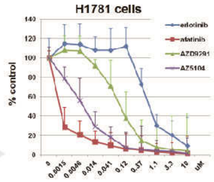
Size:5 mg,10 mg,50 mg,500 mg
Soluble in DMSO > 10 mM

B5836 AZ5104

AZ5104, is a potent EGFR inhibitor with IC50<1 nM, 6 nM, 1 nM, 25 nM, for EGFR (L858R/T790M), EGFR (L858R), EGFR (L861Q), and EGFR (wildtype), respectively.



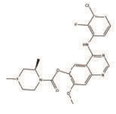
Size:10 mg,50 mg,200 mg
Soluble in DMSO



Efficacy of AZ5104 against lung-cancer associated HER2 mutants.

B5962 AZD3759

AZD3759 is a potent and oral active inhibitor of EGFR (IC50 = 7.0-7.7 nM) with antineoplastic activity.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

FAK Inhibitors

Potency Comparison

Inhibitors	FAK
PF-00562271	**** (IC_{50}:1.5 nM)
PND-1186	**** (IC_{50}:1.5 nM)
TAE226 (NVP-TAE226)	**** (IC_{50}:5.5 nM)
PF-573228	**** (IC_{50}:4 nM)
PF-431396	*
PF-562271 HCl	**** (IC_{50}:1.5 nM)
PF-562271	**** (IC_{50}:1.5 nM)
Defactinib	*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

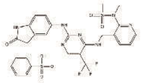
A3730 PND-1186

PND-1186 is a reversible inhibitor of FAK (focal adhesion kinase) with IC50 value of 1.5 nM.

Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

A8320 PF-00562271

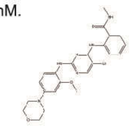
PF-562271 is a potent, ATP-competitive and reversible inhibitor of both FAK and Pyk2 with IC50 of 1.5 nmol/L and 14 nmol/L, respectively.



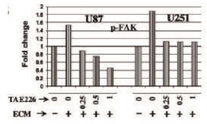
Size:5 mg,25 mg
Soluble in DMSO > 10 mM

A8557 TAE226 (NVP-TAE226)

TAE226 (NVP-TAE226) is a potent inhibitor of FAK with an IC50 value of 5.5 nM.



Size:5 mg,10 mg,100 mg
Soluble in DMSO > 10 mM

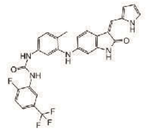


TAE226 treatment inhibits FAK.

Trk Inhibitor

A8303 GNF-5837

GNF-5837 is a potent and selective pan-TRK inhibitor, suppressing the activity of TrkA and TrkB with IC50 of 8 and 12 nM, respectively.



Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

FGFR Inhibitors

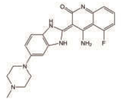
Potency Comparison

Inhibitors	FGFR	FGFR1	FGFR2	FGFR3	FGFR4
AZD4547		***** (IC_{50}:0.2 nM)	**** (IC_{50}:2.5 nM)	**** (IC_{50}:1.8 nM)	
BGJ398		***** (IC_{50}:0.9 nM)	**** (IC_{50}:1.4 nM)	***** (IC_{50}:1 nM)	*** (IC_{50}:60 nM)
BLU9931					**** (IC_{50}:3 nM)
Dovitinib (TKI-258, CHIR-258)		**** (IC_{50}:8 nM)		**** (IC_{50}:9 nM)	
LY2874455		**** (IC_{50}:2.8 nM)	**** (IC_{50}:2.6 nM)	**** (IC_{50}:6.4 nM)	**** (IC_{50}:6 nM)
PD 173074		*** (IC_{50}:25 nM)			
Pazopanib (GW-786034)	*** (IC_{50}:74 nM)				
AP26113		** (IC_{50}:128 nM)			
PD 161570	*** (IC_{50}:40 nM)				
Ponatinib (AP24534)		**** (IC_{50}:2.2 nM)			
Nintedanib (BIBF 1120)		*** (IC_{50}:69 nM)	*** (IC_{50}:37 nM)	** (IC_{50}:108 nM)	
Danusertib (PHA-739358)	*** (IC_{50}:47 nM)				
E-3810		*** (IC_{50}:17.5 nM)	*** (IC_{50}:82.5 nM)		
ACTB-1003	*	**** (IC_{50}:6 nM)			

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A2168 Dovitinib (TKI-258, CHIR-258)

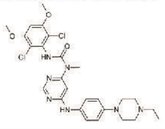
Dovitinib (TKI258, CHIR-258) is a multitargeted receptor tyrosine kinase inhibitor against FLT3, KIT, FGFR, VEGFR, PDGFRα and PDGFRβ with IC50 of 1 nM, 2 nM, 8-9 nM, 8-13 nM , 210 nM and 27 nM, respectively.



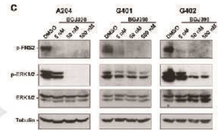
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A3014 BGJ398

BGJ398 (NVP-BGJ398) is a potent and selective inhibitor of FGFR for FGFR1/2/3 with IC50 of 0.9/1.4/1 nM, >40-fold selective for FGFR versus FGFR4 and VEGFR2.



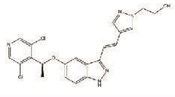
Size:5 mg,10 mg,100 mg,200mg
Limited solubility



Inhibition effect of BGJ398 on p-FRS2 and p-ERK1/2.

A3576 LY2874455

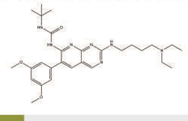
LY2874455 is a novel and potent FGFR inhibitor with IC50 value of 7 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A8253 PD 173074

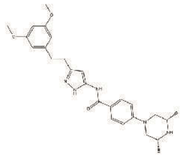
PD173074 is a potent inhibitor of FGFR1 with IC50 of ~25 nM and also inhibits VEGFR2 with IC50 of 100-200 nM, ~1000-fold selective for FGFR1 than PDGFR and c-Src.



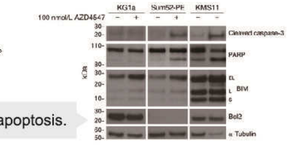
Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8350 AZD4547

AZD4547 is a novel selective inhibitor of FGFR for FGFR1/2/3 with IC50 of 0.2/2.5/1.8 nM, weaker activity against FGFR4, VEGFR2(KDR), and little activity observed against IGFR, CDK2, and p38.



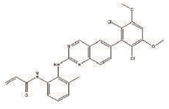
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



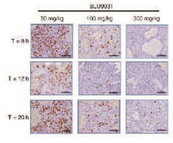
AZD4547 treatment induces apoptosis.

A8706 BLU9931

BLU9931 is a potent and irreversible inhibitor of FGFR4 with IC50 of 3 nM, weakly inhibiting FGFR1, FGFR2 and FGFR3 with IC50 values of 591, 493 and 150 nM, respectively.



Size:5 mg,25 mg
Soluble in DMSO



BLU9931 inhibits expression of the proliferative marker Ki-67.

FLT3 Inhibitors

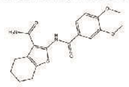
Potency Comparison

Inhibitors	FLT3	Flt3 D835Y	Flt3 ITD
AST 487	*		
G-749	***** (IC_{50}:0.4 nM)		
KW 2449	**** (IC_{50}:6.6 nM)	***** (IC_{50}:1 nM)	
Quizartinib (AC220)	**** (IC_{50}:4.2 nM)		**** (IC_{50}:1.1 nM)
TCS 359	*** (IC_{50}:42 nM)		
UNC2025	***** (IC_{50}:0.74 nM)		
TG101209	*** (IC_{50}:25 nM)		
Ponatinib (AP24534)	*** (IC_{50}:25 nM)		
Cabozantinib (XL184, BMS-907351)	*** (IC_{50}:11.3 nM)		
Linifanib (ABT-869)	**** (IC_{50}:4 nM)		
Lestaurtinib	**** (IC_{50}:3 nM)		
Amuvatinib (MP-470, HPK 56)		*** (IC_{50}:81 nM)	
5'-Fluoroindirubinoxime	**** (IC_{50}:15 nM)		
Tandutinib (MLN518)	** (IC_{50}:0.22 μM)		
Pacritinib	*** (IC_{50}:22 nM)	**** (IC_{50}:6 nM)	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A2323 TCS 359

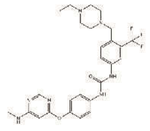
TCS 359 is a potent inhibitor against the fms-like tyrosine kinase-3 (FLT3) with an IC50 value of 0.042 ±0.03 μM.



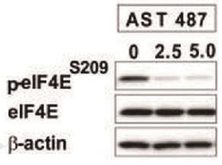
Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A3194 AST 487

AST487 is an inhibitor of RET kinase with IC50 value of 0.88 μM.



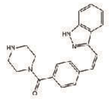
Size:5 mg,10 mg,50 mg
Soluble in DMSO



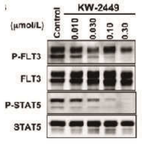
AST 487 inhibits eIF4E phosphorylatio in K562 cells.

A4123 KW 2449

KW 2449 is a multikinase inhibitor of FLT3, ABL, ABL-T315I, and Aurora kinase with IC50 values of 6.6 nM, 14 nM, 4 nM and 48 nM, respectively.



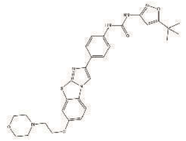
Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



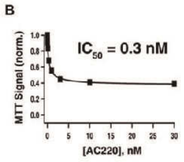
Effect of KW-2449 on phosphorylation levels of FLT3 and STAT5.

A5793 Quizartinib (AC220)

Quizartinib (AC220) is a 2nd-generation FLT3 inhibitor for Flt3(ITD/WT) with IC50 value of 1.1 nM/4.2 nM, and it is ten-fold more selective for Flt3 than PDGFRα, PDGFRβ, KIT, RET and CSF-1R.



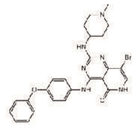
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



Treatment of Quizartinib reduces cell viability.

A8889 G-749

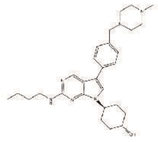
G-749 is a selective inhibitor of Fms-like tyrosine receptor kinase-3 (FLT3) with IC50 value of 0.4 nM for wild-type FLT31.



Size:1 mg,5 mg
Soluble in DMSO

B8016 UNC2025

UNC2025 is a potent and orally bioavailable Mer/Flt3 dual inhibitor with IC50 of 0.8/0.74 nM for Mer/Flt3.



Size:5 mg,25 mg
Soluble in DMSO

IGF1R Inhibitors

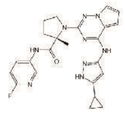
Potency Comparison

Inhibitors	IGF1R
AG-1024	* (IC_{50}:7 μM)
AXL1717	***** (IC_{50}:1 nM)
BMS-754807	**** (IC_{50}:1.8 nM)
GSK1904529A	*** (IC_{50}:27 nM)
NVP-AEW541	*** (IC_{50}:86 nM)
PQ 401	* (IC_{50}:12 μM)
Linsitinib	*** (IC_{50}:35 nM)
BMS-536924	*** (IC_{50}:100 nM)
NVP-ADW742	** (IC_{50}:0.17 μM)

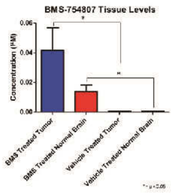
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1185 BMS-754807

BMS-754807 is a potent and small molecular inhibitor which targets the IGF-1R/IR family kinases with Ki <2 nmol/L.



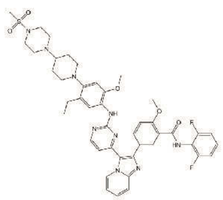
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



BMS-754807 has limited drug delivery to the tumor in brainstem.

A1302 GSK1904529A

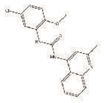
GSK1904529A is a small-molecule inhibitor of the insulin-like growth factor-I receptor (IGF-IR) with IC50 value of 27 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A2033 PQ 401

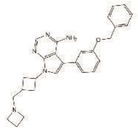
PQ401 is a novel and potent inhibitor of IGF-IR with IC50 of 12μM.



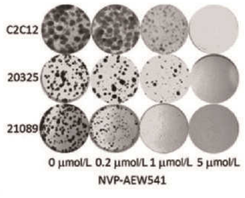
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A2278 NVP-AEW541

NVP-AEW541 is a novel, potent and selective inhibitor of IGF-IR kinase with IC50 value of 0.086 μM.



Size:2 mg,5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



NVP-AEW541 inhibits the growth of mouse tumor.

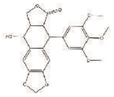
A2673 AG-1024

AG1024 is an inhibitor of insulin-like growth factor-1 receptor (IGF-1R) and insulin receptor (IR) that specifically inhibits autophosphorylation of IGF-1R and IR with IC50 values of 7μM and 57 μm, respectively.

Size:5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM

A3209 AXL1717

AXL1717 (Picropodophyllotoxin) is an orally active inhibitor of insulin-like growth factor-1 receptor (IGF-1R) with an IC50 value of 1 nM.



Size:10 mg,50 mg,250 mg
Soluble in DMSO > 10 mM

IRAK Inhibitors

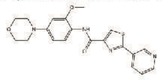
Potency Comparison

Inhibitors	Pan-IRAK	IRAK-1	IRAK-4
IRAK inhibitor 6			*
IRAK-1-4 Inhibitor I		** (IC_{50}:0.3 μM)	** (IC_{50}:0.2 μM)
IRAK inhibitor 1			*
IRAK inhibitor 2	*		
IRAK inhibitor 3	*		
IRAK inhibitor 4	*		

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3504 IRAK inhibitor 6

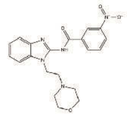
IRAK inhibitor 6 is an interleukin-1 receptor associated kinase 4 (IRAK-4) inhibitor with IC50 of 0.16 μM.



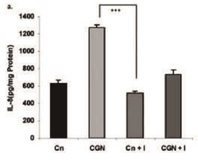
Size:5 mg,10 mg,50 mg
Soluble in DMSO

A3505 IRAK-1-4 Inhibitor I

IRAK-1-4 Inhibitor I is an inhibitor of both IRAK-1 and IRAK-4 with IC50 values of 0.3 μM and 0.2 μM , respectively.



Size:10 mg,20 mg,50 mg,100 mg
Soluble in DMSO



IRAK-1-4 reduces CGN-associated increases in Bcl10 and IL-8.

LRRK2 Inhibitors

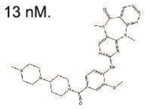
Potency Comparison

Inhibitors	LRRK2
GNE-7915	**** (IC_{50}:9 nM)
HG-10-102-01	*** (IC_{50}:20.3 nM)
LRRK2-IN-1	*** (IC_{50}:13 nM)
GNE-9605	*** (IC_{50}:19 nM)
GNE0877	***** (Ki:0.7 nM)
CZC-25146	**** (IC_{50}:4.76 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3558 LRRK2-IN-1

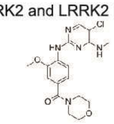
LRRK2-IN-1 is a potent and selective inhibitor of LRRK2 with IC50 value of 13 nM.



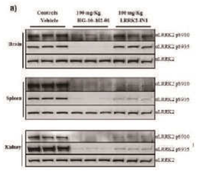
Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

B1262 HG-10-102-01

HG-10-102-01 is a potent and selective inhibitor of leucine-rich repeat kinase 2 (LRRK2) with the IC50 values of 20.3 nM and 3.2 nM for wild type LRRK2 and LRRK2 [G1019S], respectively.



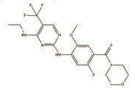
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO



Pharmacodynamic analysis for HG-10-102-01.

B3605 GNE-7915

GNE-7915 is a highly potent, selective, and brain-penetrable leucine-rich repeat kinase2 (LRRK2) inhibitor, with Ki and IC50 of 1 nM and 9 nM, respectively.

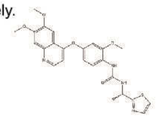


Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

c-FMS Inhibitor

A3527 Ki20227

The IC50s of Ki20227 inhibiting c-Fms, c-Kit, KDR, and platelet-derived growth factor receptor B were found to be 2, 451, 12, and 217 nmol/L, respectively.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

PDGFR Inhibitors

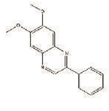
Potency Comparison

Inhibitors	PDGFR	PDGFRα	PDGFRβ	PDGFRα（V561D）
Crenolanib (CP-868596)		**** (Kd:2.1 nM)	**** (Kd:3.2 nM)	
MK-2461			*** (IC_{50}:22 nM)	
Pazopanib (GW-786034)	*** (IC_{50}:84 nM)			
Sorafenib			*** (IC_{50}:57 nM)	
Sunitinib		*** (IC_{50}:69 nM)	*** (IC_{50}:39 nM)	
Sunitinib malate			**** (IC_{50}:2 nM)(Ki:8 nM)	
Tyrphostin AG 1296	** (IC_{50}:0.3-0.5 μM)			
Amuvatinib (MP-470, HPK 56)				*** (IC_{50}:40 nM)
Masitinib (AB1010)		** (IC_{50}:540 nM)	** (IC_{50}:800 nM)	
Flumatinib mesylate			** (IC_{50}:307.6 nM)	
DCC-2618		*** (IC_{50}:30 nM)	*** (IC_{50}:13 nM)	
Masitinib mesylate		** (IC_{50}:540±60 nM)		
Regorafenib			*** (IC_{50}:22 nM)	
Ponatinib (AP24534)		**** (IC_{50}:1.1 nM)		
Nintedanib (BIBF 1120)		*** (IC_{50}:59 nM)	*** (IC_{50}:65 nM)	
Sorafenib Tosylate			*** (IC_{50}:57 nM)	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A2477 Tyrphostin AG 1296

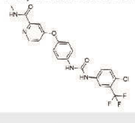
Tyrphostin AG 1296 is a selective inhibitor for PDGFR with IC50 value of 0.3 μM-0.5 μM.



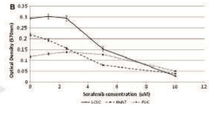
Size:5 mg,25 mg,100 mg
Limited solubility

A3009 Sorafenib

Sorafenib is a multikinase inhibitor of Raf-1, B-Raf and VEGFR-2 with IC50 of 6 nM, 22 nM and 90 nM, respectively.



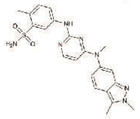
Size:20 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



Sorafenib monotherapy on inhibition of LCSC, Huh7, and PLC cells.

A3022 Pazopanib (GW-786034)

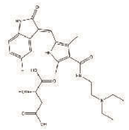
Pazopanib is a novel multi-target inhibitor of VEGFR1, VEGFR2, VEGFR3, PDGFR, FGFR, c-Kit and c-Fms with IC50 of 10, 30, 47, 84, 74, 140 and 146 nM, respectively.



Size:10 mg,25 mg,100 mg,500 mg
Soluble in DMSO > 10 mM

A8255 Sunitinib Malate

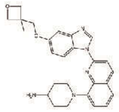
Sunitinib Malate is a multi-targeted inhibitor of RTK for VEGFR2 (Flk-1) and PDGFRβ with IC50 of 80 nM and 2 nM.



Size:50 mg,100 mg,500 mg
Soluble in DMSO > 10 mM

A8307 Crenolanib (CP-868596)

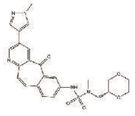
Crenolanib (CP-868596) is a potent and selective inhibitor of PDGFRα/β with Kd of 2.1 nM/3.2 nM.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

A8476 MK-2461

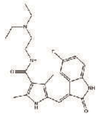
MK-2461 is a potent inhibitor of Met, Flt1, Flt 3, Ron, PDGFRβ, and Mer with IC50 of 2.5, 10, 22, 7 and 24 nM, respectively.



Size:5 mg,10 mg
Soluble in DMSO > 10 mM

B1045 Sunitinib

Sunitinib is an oral, multi-targeted and small-molecule inhibitor of receptor tyrosine kinase (RTK).



Size:100 mg,500 mg,1 g,2 g
Soluble in DMSO

Pyk2 Inhibitors

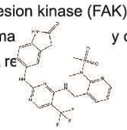
Potency Comparison

Inhibitors	Pyk2
PF-562271	*** (IC_{50}:14 nM)
PF-562271 HCl	*** (IC_{50}:14 nM)
PF-431396	*** (IC_{50}:11 nM)
PF-00562271	*** (IC_{50}:14 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A8310 PF-562271

PF-562271 is a potent, ATP-competitive and reversible inhibitor of both focal adhesion kinase (FAK) and proline-rich tyrosine kinase 2 (Pyk2), with half ma y concentration (IC50) of 1.5 nmol/L and 14 nmol/L re



Size:10 mg, 50 mg
Soluble in DMSO > 10 mM

A8345 PF-562271 HCl

PF-562271 is a potent, ATP-competitive and reversible inhibitor of both focal adhesion kinase (FAK) and proline-rich tyrosine kinase 2 (Pyk2), with half maximal inhibitory concentration (IC50) of 1.5 nmol/L and 14 nmol/L respectively.

Size:5 mg,10 mg, 50 mg
Soluble in DMSO > 10 mM

Spleen Tyrosine Kinase (Syk) Inhibitors

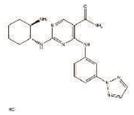
Potency Comparison

Inhibitors	Syk
GS-9973	**** (IC_{50}:7.7 nM)
PRT062607 Hydrochloride	***** (IC_{50}:1 nM)
R406	*** (IC_{50}:41 nM)
R406 (free base)	*** (IC_{50}:41 nM)
R788	*** (IC_{50}:41 nM)
Piceatannol	*
MNS	* (IC_{50}:2.5 μM)
Fostamatinib (R788)	*** (IC_{50}:41 nM)
BAY 61-3606 dihydrochloride	**** (IC_{50}:10 nM)
BAY 61-3606	**** (IC_{50}:10 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3736 PRT062607 Hydrochloride

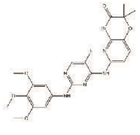
PRT062607 Hydrochloride is a highly selective and novel SYK inhibitor with IC50 value of 1 nM.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

A5880 R406 (free base)

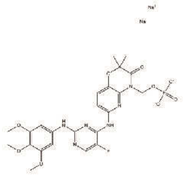
R406 (free base) is a potent inhibitor of Syk with IC50 of 41 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A8332 R788 (Fostamatinib) disodium

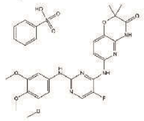
R788 (Fostamatinib) disodium, a prodrug of the active metabolite R406, is an inhibitor of Syk with IC50 of 41 nM.



Size:5 mg,10 mg,50 mg,100 mg
Limited solubility

A8546 R406

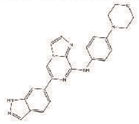
R406 is a potent inhibitor of Syk with IC50 of 41 nM.



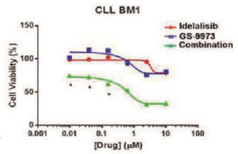
Size:2 mg,5 mg,25 mg
Soluble in DMSO > 10 mM

B3553 GS-9973

GS-9973 is a selective inhibitor of Syk with IC50 value of 7.7 nM.



Size:10 mg,25 mg
Soluble in DMSO > 10 mM



A representative viability curve for CLL BM1.

Src Inhibitors

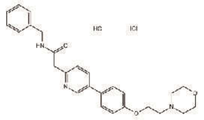
Potency Comparison

Inhibitors	Src	v-Src-as1 I338G	Lck
1-NM-PP1	* (IC_{50}:28 μM)	**** ($IC5_{50}$:4.2 nM)	
KX1-004	*		
KX2-391 dihydrochloride	*		
NVP-BHG712	* (ED_{50}:1.3 μM)		
PP 1			**** (IC_{50}:5 nM)
PP 2 (AG 1879)			**** (IC_{50}:4 nM)
SU6656	** (IC_{50}:280 nM)		
WH-4-023	**** (IC_{50}:6 nM)		
ZM 306416	** (IC_{50}:0.33 μM)		
Saracatinib (AZD0530)	**** (IC_{50}:2.7 nM)		
Bosutinib (SKI-606)	**** (IC_{50}:1.2 nM)		
Dasatinib hydrochloride	***** (IC_{50}:0.8 nM)		
Dasatinib (BMS-354825)	***** (IC_{50}:0.8 nM)		
Src I1	*** (IC_{50}:44 nM)		

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3535 KX2-391 dihydrochloride

KX2-391 is an orally bioavailable small molecule Src kinase inhibitor with potential antineoplastic activity.



Size:5 mg,10 mg,50 mg,250 mg
Soluble in DMSO

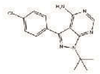
A8215 PP 1

PP1 is a a potent and selective inhibitor of Src-family tyrosine kinases, with an IC50 of 5 and 6 nM respectively for p56lck and p59fynT.

Size:5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM

A8216 PP 2 (AG 1879)

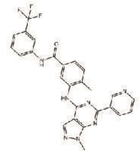
PP2 is a selective inhibitor of Src family with IC50 value of 4 nM and 5 nM for Lck and Fyn, respectively.



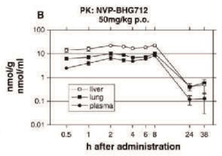
Size:5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM

A8683 NVP-BHG712

NVP-BHG712 is a potent inhibitor of EphB4 and VEGFR2 with ED50 value of 25 nM and 4200 nM, respectively.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

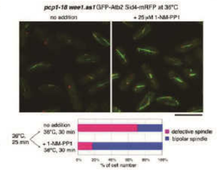


NVP-BHG712 inhibits endogenous EphB4 autophosphorylation.

B1299 1-NM-PP1

1-NM-PP1 is a potent and selective inhibitor of protein kinase families with the IC50 values of 28 μM, 1.0 μM, 3.4 μM, 29 μM, 24 μM,4.3 nM, 3.2 nM, 120 nM,5 nM and 8 nM for v-Src, c-Fyn, c-Abl, CDK2, CAMKII, v-Src-as1, c-Fyn-as1, cAbl-as2, CDK2-as1 and CAMKII-as1, respectively.

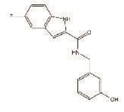
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO



The mitotic defect of pcp1-18 cells is suppressed by wee1.

B4728 KX1-004

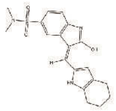
KX1-004 is a non-ATP competitive inhibitor of pp60c-src with IC50 value of 40 μM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

B5839 SU6656

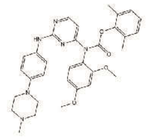
SU6656 is a small-molecule, potent and selective inhibitor of Src tyrosine kinases.



Size:5 mg,25 mg,100 mg
Soluble in DMSO

B8003 WH-4-023

WH-4-023 is a potent and selective Lck and Src inhibitor with IC50 values of 2 and 6 nM, respectively.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

VEGFR Inhibitors

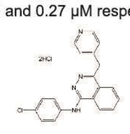
Potency Comparison

Inhibitors	Pan-VEGFR	VEGFR1/FLT1	VEGFR2	VEGFR2/Flk1	VEGFR2/KDR	VEGFR3/Flt4
Apatinib			***** (IC_{50}:1 nM)			
Axitinib (AG 013736)		***** (IC_{50}:0.1 nM)		***** (IC_{50}:0.18 nM)	***** (IC_{50}:0.2 nM)	***** (IC_{50}:0.1-0.3 nM)
Brivanib (BMS-540215)			*** (IC_{50}:25 nM)			
Brivanib Alaninate (BMS-582664)			*** (IC_{50}:25 nM)			
Cediranib (AZD217)		**** (IC_{50}:5 nM)			***** (IC_{50}:0.5 nM)	**** (IC_{50}: ≤3 nM)
Dovitinib Dilactic Acid		**** (IC_{50}:10 nM)		*** (IC_{50}:13 nM)		**** (IC_{50}:8 nM)
Foretinib (GSK1363089)						**** (IC_{50}:2.8 nM)
Ki8751			***** (IC_{50}:0.9 nM)			
Lenvatinib (E7080)		*** (IC_{50}:22 nM)	**** (IC_{50}:4 nM)			**** (IC_{50}:5.2 nM)
Linifanib (ABT-869)		**** (IC_{50}:3 nM)			**** (IC_{50}:4 nM)	
Pazopanib Hydrochloride		**** (IC_{50}:10 nM)	*** (IC_{50}:30 nM)			*** (IC_{50}:47 nM)
RAF265			*** (EC_{50}:30 nM)			
Semaxanib (SU5416)			* (IC_{50}:1.23 μM)			
SKLB1002			*** (IC_{50}:32 nM)			
SKLB610	*		*			
SU 4312	** (IC_{50}:0.8 μM)					
SU 5402			*** (IC_{50}:20 nM)			
Telatinib (BAY 57-9352)			**** (IC_{50}:6 nM)			**** (IC_{50}:4 nM)
Tivozanib (AV-951)			***** (IC_{50}:0.16 nM)			
TSU-68 (SU6668,Orantinib)				* (IC_{50}:2.43 μM)		
Vandetanib (ZD6474)			*** (IC_{50}:40 nM)			
Vatalanib		*** (IC_{50}:77 nM)			*** (IC50 :37 nM)	
Vatalanib (PTK787) 2HCl		*** (IC_{50}:77 nM)		** (IC_{50}:270 nM)	*** (IC50 :37 nM)	** (IC_{50}:660 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1778 Vatalanib (PTK787) 2HCl

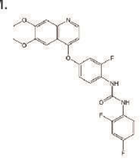
Vatalanib, also known as PTK787, is a potent vascular endothelial growth factor (VEGF) receptor tyrosine kinases inhibitor that inhibits VEGF receptor/KDR, VEGF receptor/Flt-1 and VEGF receptor/Flk with the half maximal inhibition concentration IC50 values of 0.037 μM, 0.077 μM and 0.27 μM respectively.



Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A1821 Ki8751

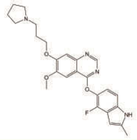
Ki8751 is a selective and potent inhibitor of VEGFR2 with IC50 value of 0.9 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A1882 Cediranib (AZD217)

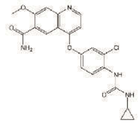
Cediranib (AZD217) is a highly potent inhibitor of VEGFR with IC50 value of <1 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A2174 Lenvatinib (E7080)

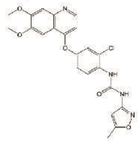
Lenvatinib (E7080) is an inhibitor of multiple RTK with IC50 values of 22nM, 4nM, 5.2nM, 39nM and 35nM on VEGFR-1, VEGFR-2, VEGFR-3, PDGFRβ and RET, respectively .



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A2251 Tivozanib (AV-951)

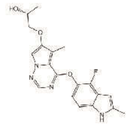
Tivozanib (AV-951) is an inhibitor of tyrosine kinase with IC50 value of 160 pmol/L against VEGFR-2.



Size:10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A2597 Brivanib (BMS-540215)

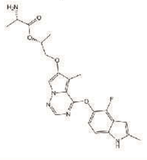
Brivanib (BMS-540215) is an ATP competitive inhibitor of human VEGFR-2 with IC50 value of 25 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A2633 Brivanib Alaninate (BMS-582664)

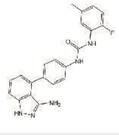
Brivanib Alaninate (BMS-540215) is an ATP-competitive inhibitor of human VEGFR -2, with an IC50 of 25 nmol/L and Ki of 26 nmol/L.



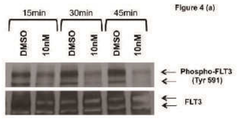
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A2949 Linifanib (ABT-869)

Linifanib (ABT-869) is an effective ATP-competitive tyrosine kinase inhibitor with IC50 values of 0.55 nmol/L and 6 μmol/L to the cell growth in Ba/F3 FLT3 ITD mutant cells and in Ba/F3 FLT3 WT cells, respectively.



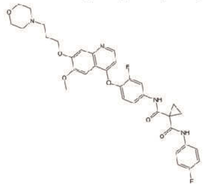
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



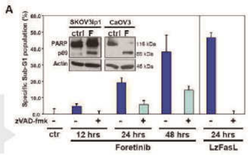
Linifanib inhibits phosphorylation of FLT3.

A2974 Foretinib (GSK1363089)

Foretinib (GSK1363089) is a novel, potent, small-molecule inhibitor of member of the vascular endothelial growth factor (VEGF)and hepatocyte growth factor (HGF) receptor tyrosine kinase families.



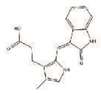
Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



Foretinib induces ovarian cancer cell detachment and cell death.

A3843 SU 5402

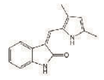
SU 5402 is an inhibitor of VEGF, FGF, and PDGF receptor tyrosine kinases with IC50 of 0.02, 0.03, 0.51 and > 100 μM for VEGFR2, FGFR1, PDGFRβ and EGFR, respectively.



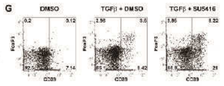
Size:10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A3847 SU5416

SU5416 inhibits VEGF-dependent phosphorylation of the Flk-1 receptor in Flk-1-overexpressing NIH 3T3 cells with an IC50 of 1.04±0.53 mM.



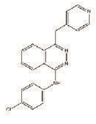
Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



SU5416 upregulates CYP1A1.

A3969 Vatalanib

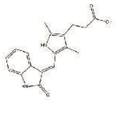
Vatalanib is a novel and potent inhibitor of VEGFR with IC50 value of 77 nM, 27 nM and 37 nM for VEGFR-1 (Flt-1), VEGFR-2 (FLK-1) and VEGFR-2 (KDR), respectively.



Size:25mg
Soluble in DMSO

A5331 TSU-68 (SU6668,Orantinib)

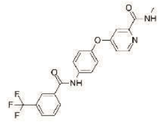
TSU-68 (SU6668, Orantinib) is a potent inhibitor of PDGFR with a Ki value of 8 nM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A8237 SKLB610

SKLB610 is a selective inhibitor of VEGFR with IC50 value of 2.2 μM.

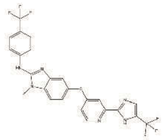


Size:5 mg,10 mg,50 mg
Soluble in DMSO

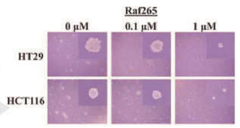
VEGFR/Insulin Receptor

A8313 RAF265

RAF265 (CHIR-265) is a potent selective inhibitor of C-Raf/B-Raf/B-Raf V600E with IC50 of 3-60 nM.



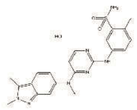
Size:5 mg,25 mg
Soluble in DMSO > 10 mM



The anti-proliferative effect of Raf265 on HT29 and HCT116 cells.

A8347 Pazopanib Hydrochloride

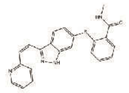
Pazopanib HCl is a receptor tyrosine kinase inhibitor with IC50 values of 10nM, 30nM, 47nM, 84nM, 74nM, 140nM, and 146nM for VEGFR1, VEGFR2, VEGFR3, PDGFR, FGFR, c-Kit, and c-Fms, respectively.



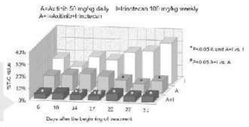
Size:25 mg,100 mg,250 mg
Soluble in DMSO > 10 mM

A8370 Axitinib (AG 013736)

Axitinib (AG 013736) is a selective and oral inhibitor of vascular endothelial growth factor (VEGF) receptor tyrosine kinases 1, 2 and 3 with IC50 values of 1.2 nM, 0.2 nM and 0.1 to 0.3 nM in cells, respectively.



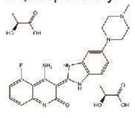
Size:50 mg,100 mg
Soluble in DMSO > 10 mM



In vivo antitumor effects of irinotecan and axitinib.

A8418 Dovitinib Dilactic Acid

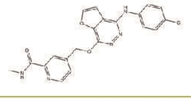
Dovitinib Dilactic acid is a potent, non-specific growth factor receptor kinase inhibitor with effects against FLT-3, c-KIT, VEGFR, PDGFRß and CSF-1R, respectively.



Size:10 mg,25 mg
Soluble in DMSO > 10 mM

A8550 Telatinib (BAY 57-9352)

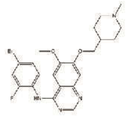
Telatinib (BAY 57-9352) is a potent inhibitor of VEGFR2/3, c-Kit and PDGFRβ with IC50 values of 6 nM/4 nM, 1 nM and 15 nM, respectively.



Size:5mg,10mg,50mg
Soluble in DMSO > 10 mM

A8555 Vandetanib (ZD6474)

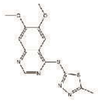
Vandetanib (ZD6474) is a dual inhibitor of VEGFR-2 and EGFR with IC50 values of 40 nM and 500 nM, respectively.



Size:25 mg,100 mg
Limited solubility

B1305 SKLB1002

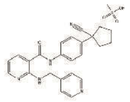
SKLB1002 is a potent inhibitor of VEGF receptor 2 with IC50 value of 32 nM.



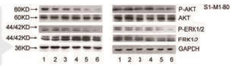
Size:5 mg,10 mg
Limited solubility

B2303 Apatinib

Apatinib is an orally bioavailable, selective inhibitor of VEGFR2 with an IC50 value of 1 nM.



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM



Effect of apatinib on the phosphorylation of AKT and ERK1/2.

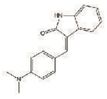
B2304 Semaxanib (SU5416)

Semaxanib (SU5416) is a potent and selective VEGFR(Flk-1/KDR) inhibitor with IC50 of 1.23 μM, 20-fold more selective for VEGFR than PDGFRβ, lack of activity against EGFR, InsR and FGFR.

Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

B6746 SU 4312

SU 4312 is a potent, selective VEGFR and PDGFR tyrosine kinases inhibitor with IC50 values of 0.8 and 19.4 μM, respectively.

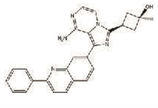


Size:10 mg
Soluble in DMSO > 10 mM

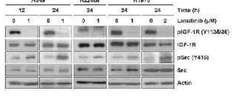
Insulin Receptor Inhibitor

A8334 Linsitinib (OSI-906)

Linsitinib (OSI-906) is a potent and novel small-molecule inhibitor inhibiting insulin receptor (IR) and IGF-1 receptor (IGF-1R) kinases with IC50 value of 75 nM and 35 nM, respectively.

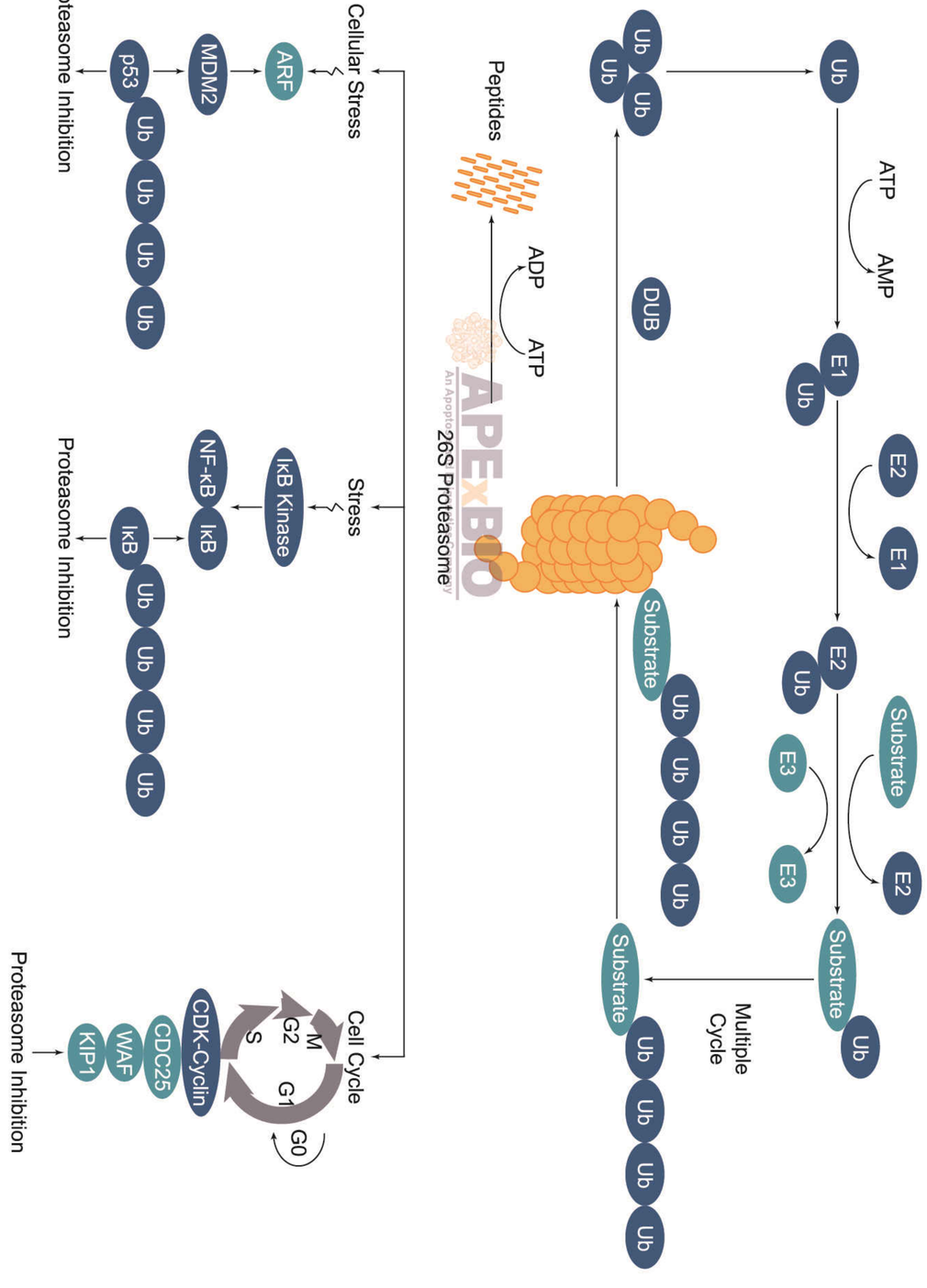


Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



Induction of Src activation by linsitinib treatment.

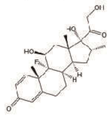
Proteasome/Ubiquitination



Autophagy Inhibitors

A2324 Dexamethasone (DHAP)

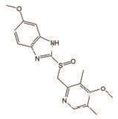
Dexamethasone (DHAP) is a potent synthetic member of the glucocorticoid, and reduces levels of activated NF-κB in immature dendritic cells (DCs) and inhibits differentiation into mature DCs.



Size:5 mg,100 mg
Soluble in DMSO > 10 mM

A2845 Omeprazole

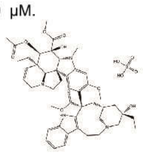
Omeprazole is a H^+,K^+-ATPase inhibitor (IC50: 5.8 μM) that displays antisecretory and antiulcer activity.



Size:5 mg,100 mg
Soluble in DMSO > 10 mM

A3920 Vinblastine sulfate

Vinblastine can inhibit the formation of microtubule and nAChR with IC50 of 8.9 μM.



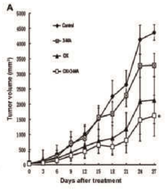
Size:10 mg,25 mg,50 mg
Soluble in DMSO

A8353 3-Methyladenine

3-Methyladenine is an inhibitor of class III phosphoinositide 3-kinase (PI3K).

Size:50 mg
Soluble in DMSO > 10 mM

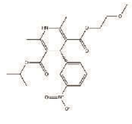
Product Citation:
Autophagy.(2016) PMID: 227163161



3-MA enhances OX-induced tumor suppression.

A8484 Nimodipine

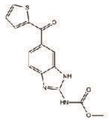
Nimodipine is an L-type calcium channel protein inhibitor. Nimodipine is an inhibitor of Mdr.



Size:100 mg,1 g
Soluble in DMSO > 10 mM

A8487 Nocodazole

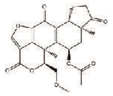
Nocodazole is a potent and reversible inhibitor of tubulin production.



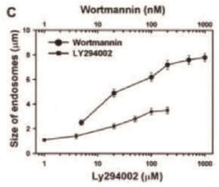
Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8544 Wortmannin

Wortmannin is a selective and irreversible inhibitor of phosphatidylinositol-3-kinase with IC50 value of 1.9 nM.



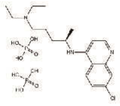
Size:5 mg,10 mg,20 mg
Soluble in DMSO > 10 mM



Wortmannin enlarges EGFR-containing endosomes.

A8628 Chloroquine diphosphate

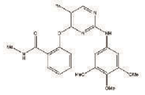
Chloroquine diphosphate is used as an antimalarial drug and also functions to increase sensitivity of tumor cells to radiation and chemotherapy via inducing autophagy.



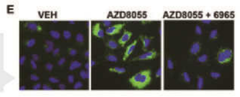
Size:100 mg
Limited solubility

A8715 SBI-0206965

SBI-0206965 is a novel inhibitor of the autophagy-initiating kinase ULK1.



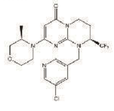
Size:5 mg,25 mg
Soluble in DMSO



SBI-0206965 Is a Highly Selective Kinase Inhibitor.

A8883 SAR405

SAR405 is a selective ATP-competitive inhibitor of Vps34 with a Kd value of 1.5 nM.



Size:2 mg,5 mg,10 mg,25 mg
Soluble in DMSO

B1395 Sulfacetamide sodium

Sulfacetamide is a sulfonamide antibiotic.

Size:50 mg
Soluble in DMSO > 10 mM

DUB Inhibitors

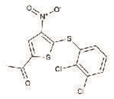
Potency Comparison

Inhibitors	DUB	USP1	USP2	USP4	USP5	USP7	USP8	USP14	USP20	USP47	UCH-L1	UCH-L3
HBX 41108						*** (IC_{50}:424 nM)						
IU1								** (IC_{50}:4.7 μM)				
LDN 57444											*** (IC_{50}:0.88 μM)	* (IC_{50}:25 μM)
NSC 632839 hydrochloride			* (IC_{50}:45 μM)			* (IC_{50}:37 μM)						
P 22077						** (EC_{50}:8.6 μM)						
P005091						** (EC_{50}:4.2 μM)						
DUBs-IN-1						* (IC_{50}:18 μM)	*** (IC_{50}:0.71 μM)					
DUBs-IN-2						** (IC_{50}:7.2 μM)	*** (IC_{50}:0.93 μM)					
DUBs-IN-3						* (IC_{50}: >100 μM)	** (IC_{50}:3.1 μM)					
ML-323		**** (IC_{50}:76 nM)										
PR-619			** (EC_{50}:7.2 μM)	** (EC_{50}:3.93 μM)					** (EC_{50}:5.10 μM)			
SJB2-043		*** (IC_{50}:0.544 μM)										
USP7-USP47 inhibitor						** (EC_{50}:4.2 μM)				** (EC_{50}:4.3 μM)		
Vialinin A				** (IC_{50}:1.5 μM)	** (IC50:5.9 μM)						* (IC_{50}:22.3 μM)	
WP1130	*											

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3023 P005091

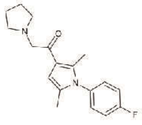
P5091(P005091) is a selective and potent inhibitor of ubiquitin-specific protease 7(USP7) with EC50 of 4.2 μM and the closely related USP47.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A4002 IU1

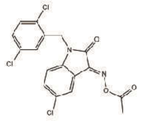
IU1 is a cell-permeable, reversible and selective proteasome inhibitor of human USP14 with IC50 of 4.7 μM.



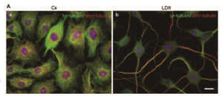
Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A4003 LDN 57444

LDN 57444 is a reversible competitive inhibitor of ubiquitin C-terminal hydrolase L1 (Uch-L1) with IC50 value of 0.88 μM.



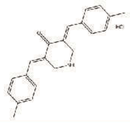
Size:10 mg,50 mg
Soluble in DMSO > 10 mM



Effect of LDN-57444 treatment on microtubule detyrosination.

A4004 NSC 632839 hydrochloride

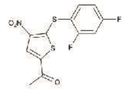
NSC 632839 is a nonselective inhibitor of isopeptidases with IC50 values of 45 μM, 37 μM, and 9.8 μM, respectively for USP2, USP7, and SENP2.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8198 P 22077

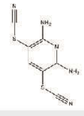
P 22077 is a potent inhibitor of ubiquitin-specific protease(USP) 7 with EC50 value of 8.6 μM.



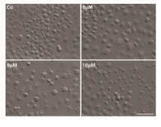
Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8212 PR-619

PR-619 is a non-selective, reversible inhibitor of the deubiquitinylating enzymes (DUBs) with EC50 of 1-20 μM.



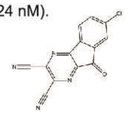
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



Treatment of PR-619 affects cell morphology.

B5550 HBX 41108

HBX 41108 is an inhibitor of ubiquitin-specific protease (USP) 7 activity (IC50 : 424 nM).



Size:10 mg
Soluble in DMSO > 10 mM

p97 Inhibitors

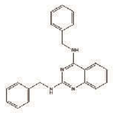
Potency Comparison

Inhibitors	p97
DBeQ	* (IC_{50}:1.5 μM)
NMS-873	*** (IC_{50}:30 nM)
MNS	* (IC_{50}:1.7 μM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A8629 DBeQ

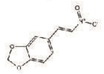
DBeQ is a selective, potent, reversible, and ATP-competitive inhibitor of p97 with an IC50 value of 1.5 μM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8661 MNS

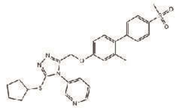
MNS is an inhibitor of tyrosine kinases with IC50 values of 2.5 μM, 29.3 μM and 1.7 μM for Syk, Src and p97, respectively.



Size:50 mg
Soluble in DMSO > 10 mM

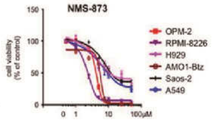
B2168 NMS-873

NMS-873 is a selective inhibitor of VCP with IC50 value of 30 nM.



Size:5 mg,50 mg
Soluble in DMSO > 10 mM

NMS-873 kills multiple myeloma and solid cancer cells.



Proteasome Inhibitors

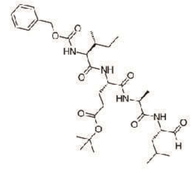
Potency Comparison

Inhibitors	Proteasome	20s proteasome	Chymotrypsin-like activity of the 20S proteasome	Chymotrypsin-like proteolytic (β5) site of the 20S proteasome	Caspase-like(β1) proteolytic sites proteasome	20S proteasome LMP7
AM 114			* (IC50:1 μM)			
Bortezomib		**** (Ki:0.6 nM)				
Carfilzomib			**** (IC50<5 nM)			
Celastrol			* (IC50:2.5 μM)			
CEP-18770			**** (IC50:3.8 nM)			
Dihydroeponemycin						*
Epoxomicin		*				
MG-115				*	*	
MG-132	** (IC50:100 nM)					
MG-262			*			
MLN9708			***** (IC50:3.4 nM, Ki:0.93 nM)			
Oprozomib				*** (IC50:36 nM)		*** (IC50:82 nM)
PSI			*			

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1900 PSI

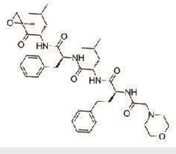
PSI (ZIE(OtBu)AL-CHO) have been shown to inhibit the proteasome activities in a variety of cell types.



Size:5 mg
Soluble in DMSO > 10 mM

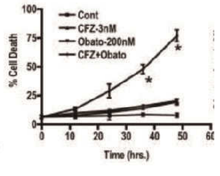
A1933 Carfilzomib (PR-171)

Carfilzomib (PR-171) is a novel second-generation proteasome inhibitor with IC50 of <5 nM in ANBL-6 cells.



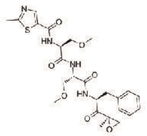
Size:5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM

PR-171/obatoclax co-treatment induces cell death in lymphoma cells.



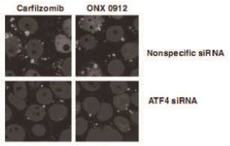
A1934 Oprozomib (ONX-0912)

ONX-0912 (oprozomib), Oprozomib (ONX 0912) is an orally bioavailable inhibitor for CT-L activity of 20S proteasome β5 and LMP7 with IC50 values of 36 nM and 82 nM, respectively.



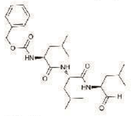
Size:5 mg,10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

ONX 0912 induces ATF4-mediated autophagy in HNSCC cells.



A2585 MG-132

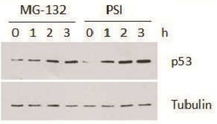
MG132 ,a peptide aldehyde effectively blocks the proteolytic activity of proteasome complex with IC50 of 100 nM, can inhibits calpain with IC50 of 1.2 μM and induce apoptotic cell death through formation of ROS.



Size:10 mg,25 mg,100 mg,500 mg
Soluble in DMSO > 10 mM

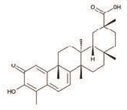
Product Citation:
J Biol Chem (2015) PMID:25957400

U2O2 cells were treated with MG-132 for 0, 1, 2, and 3 hours.



A2604 Celastrol

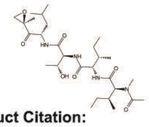
Celastrol is a potent proteasome inhibitor, potently inhibits lipid peroxidation in mitochondria and inhibits TNF-α-induced NFκB activation. Also shown to inhibit topoisomerase II activity in vitro (IC50 = 7.41 μM).



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

A2606 Epoxomicin

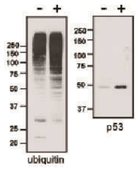
Epoxomicin is a selective and irreversible inhibitor of 20S proteasome with an IC50 value of 4 nM.



Size:1 mg,5 mg,20 mg
Soluble in DMSO

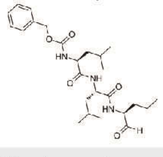
Product Citation:
Science (2016). PMID:27493187

HeLa cells were untreated or treated with 10 μm Epoxomicin.



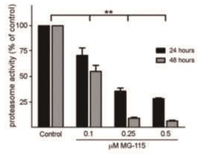
A2612 MG-115

MG-115 (Z-Leu-Leu-Nva-H) is a potent, reversible peptide aldehyde inhibitor of proteasome chymotrypsin-like and caspase-like activities with Ki of 21 nM for 20S proteasome and 35 nM for 26S proteasome.



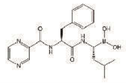
Size:5 mg,25 mg,100 mg
Soluble in DMSO

MG-115 reduces proteasome activity time and dose-dependently.



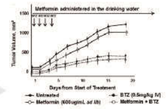
A2614 Bortezomib (PS-341)

Bortezomib (originally codenamed PS-341) is a potent inhibitor of 20S proteasome with Ki of 0.6 nM.



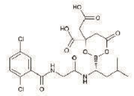
Size:10 mg,25 mg,100 mg,500 mg
Soluble in DMSO > 10 mM

Effects of bortezomib and metformin on tumor volume (TV).



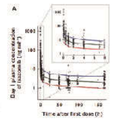
A4007 MLN9708

MLN9708 (ixazomib), a second-generation small-molecule proteasome inhibitor with IC50:3.4 nM，Ki:0.93 nM.



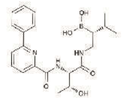
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

Dose-normalized ixazomib concentration over time.



A4009 CEP-18770

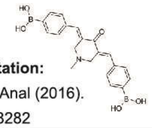
CEP-18770 is a novel, potent and reversible P2 threonine boronic acid inhibitor of proteasome with the value of inhibition constant IC50 of 3.8 nM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A8163 AM 114

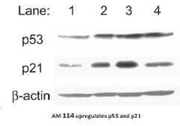
AM 114 is a potent small-molecule inhibitor of the proteasome that inhibits the chymotrypsin-like activity of the 20S proteasome with IC50 value of approximately 1μM.



Size:10 mg,50 mg
Limited solubility

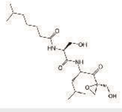
Product Citation:
Phytochem Anal (2016). PMID:26778282

AM 114 upregulates p53 and p21.



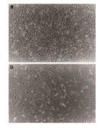
A8172 Dihydroeponemycin

Dihydroeponemycin is an inhibitor of proteasome and antitumor reagent with IC50: 100 nM .



Size:1 mg,5 mg,25 mg
Soluble in DMSO

Morphological and apoptotic induction by dihydroeponemyci.

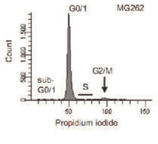


A8179 MG-262

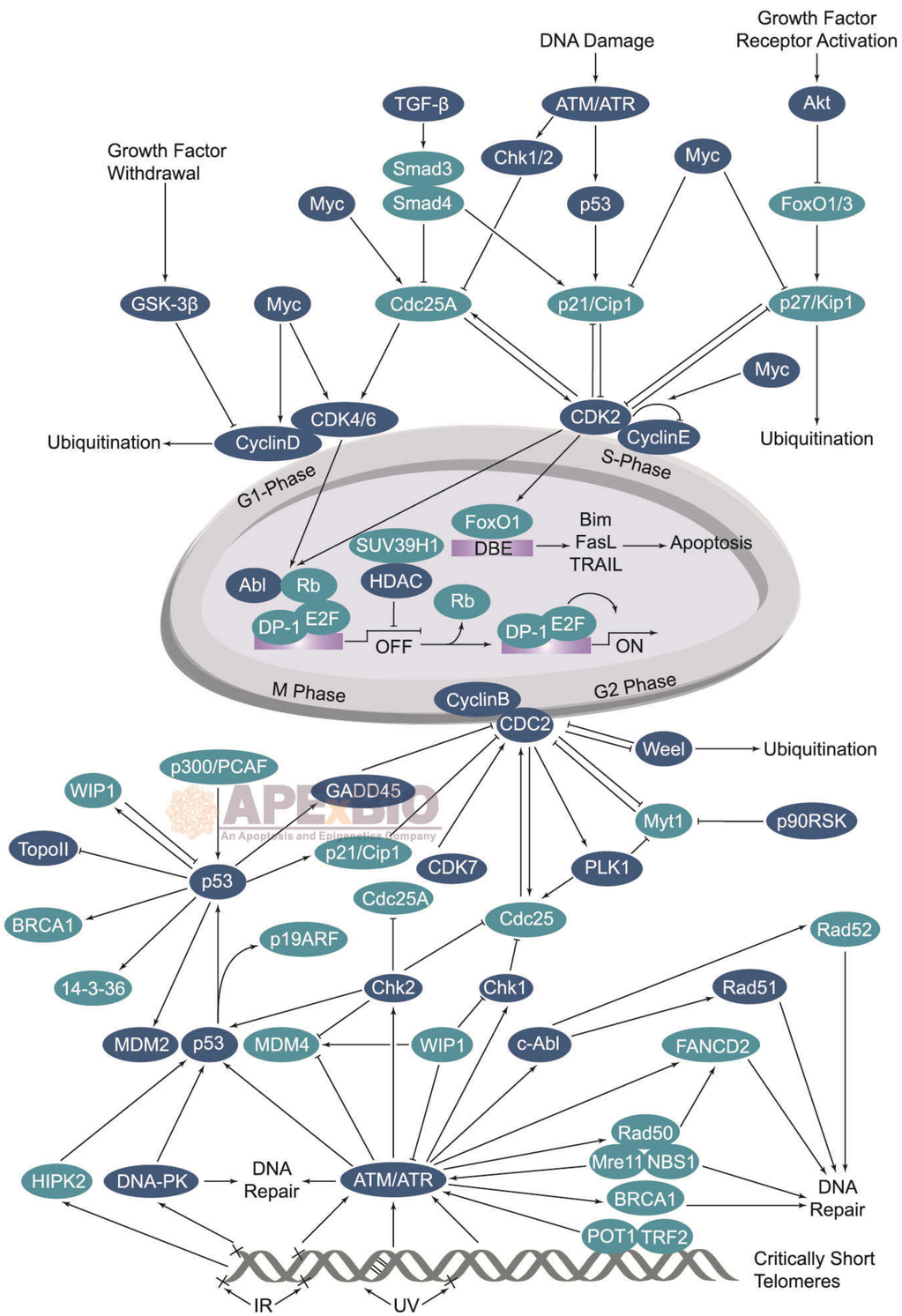
MG-262 (also known as Z-Leu-Leu-Leu-B(OH)2), is a potent proteasome inhibitor that selectively and reversibly inhibits the chymotryptic activity of the proteasome with IC50 of 122 nm.

Size:1 mg,5 mg
Soluble in DMSO

Effect of MG262 on nasal fibroblast cell cycle.



Cell Cycle/Checkpoint



APEXBIO
An Apoptosis and Epigenetics Company

ATM/ATR Inhibitors

See page 43 for the relevant product information.

Aurora Kinase Inhibitors

See page 12 for the relevant product information.

Chk Inhibitors

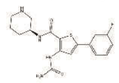
Potency Comparison

Inhibitors	Chk1	Chk2
AZD7762	**** (IC_{50}:5 nM)	**** (IC_{50}<10 nM)
BML-277		*** (Ki:15 nM), (Ki:37 nM)
CHIR-124	***** (IC_{50}:0.3 nM)	
LY2606368	**** (Ki:1.5 nM)	
MK-8776 (SCH-900776)	***** (IC_{50}:0.3 nM)	* (IC_{50}:1.5 μM)
PF-477736	***** (Ki:0.49 nM)	*** (Ki:47 nM)
CCT241533 hydrochloride		*
LY2603618	*	
NSC 109555 ditosylate		** (IC_{50}:0.2 μM)
TCS 2312	***** (Ki:0.38 nM, EC_{50}:60 nM)	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

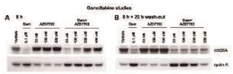
A5919 AZD7762

AZD7762 is a novel ATP competitive inhibitor of checkpoint kinases and inhibits Chk1 phosphorylation of CDC25C peptide with Ki value of 3.6 nM.



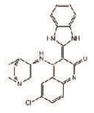
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

Treatment of AZD7762 and gemcitabine affects cell cycle protein.



A8394 CHIR-124

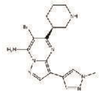
CHIR-124 is a novel and potent inhibitor of Chk1 with an IC50 value of 0.3 nM.



Size:5 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A8477 MK-8776 (SCH-900776)

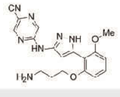
MK-8776 (SCH 900776) is a potent and selective inhibitor of Chk1, Chk2 and CDK3 with IC50 value of 3 nM, 1.5 μM and 0.16 μM, respectively.



Size:5 mg,10 mg,50 mg
Limited solubility

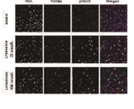
B1088 LY2606368

LY2606368 is a selective ATP competitive inhibitor of checkpoint kinase 1(Chk1) with IC50 value of 1.5 nM in SW1990 cells.



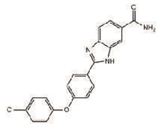
Size:5 mg,25 mg
Soluble in DMSO

Exposure to LY2606368 results in DNA damage during S-phase.



B1236 BML-277

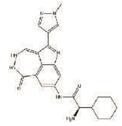
BML-277 is novel, potent and highly selective inhibitor of the Chk2 with the IC50 value of 15±6.9 nM.



Size:10 mg,50 mg
Soluble in DMSO

B1437 PF-477736

PF-477736 is a potent, selective ATP-competitive inhibitor of Chk1 with a Ki of 0.49±0.29 nM for the in vitro kinase activity of Chk1.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

CRM1 Inhibitors

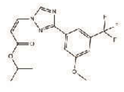
Potency Comparison

Inhibitors	CRM1
KPT-185	** (IC_{50}:100-500 nM)
Verdinexor (KPT-335)	*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

B1462 KPT-185

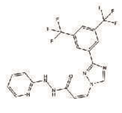
KPT-185 is a selective and irreversible inhibitor of chromosome maintenance protein 1 (CRM1) with IC50 values of 100-500 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

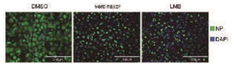
B4889 Verdinexor (KPT-335)

Verdinexor (KPT-335) is a potent and selective inhibitor of nuclear export.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

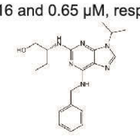
Verdinexor inhibits nuclear export of Vrnp.



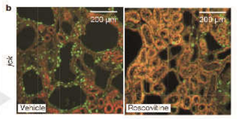
Cyclin-Dependent Kinase Inhibitors

A1723 Roscovitine (Seliciclib,CYC202)

Roscovitine (Seliciclib, CYC202) is a potent inhibitor of CDK2/cyclin E, CDK7/cyclin H, CDK5/p35 and CDC/cyclin B with IC50 values of 0.1, 0.49, 0.16 and 0.65 μM, respectively.



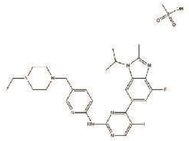
Size:5 mg,10mg,25 mg,100 mg
Soluble in DMSO > 10 mM



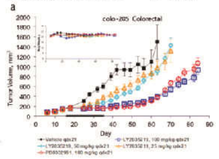
Roscovitine inhibits the proliferation of cystic epithelial cells.

A1794 LY2835219

LY2835219 is a selective and orally available dual CDK4/6 inhibitor with IC50 values of 2 nM and 10 nM, respectively.



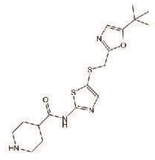
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



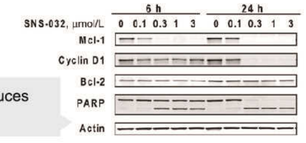
In vivo antitumor activity of LY2835219 on colo-205 xenografts.

A1980 SNS-032 (BMS-387032)

SNS-032 (BMS-387032) is a potent and selective inhibitor of CDKs 2, 7, and 9 with IC50 values of 38 nM, 62 nM and 4 nM, respectively.



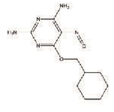
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



Treatment of SNS-032 induces apoptosis.

A1986 NU 6027

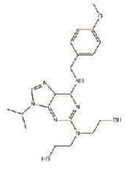
NU 6027 is a potent inhibitor of cellular ATR activity with the IC50 of 6.7 μM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A3336 CVT-313

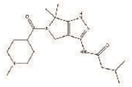
CVT-313 is a potent inhibitor of cyclin-dependent kinase 2 (CDK2) with IC50 value of 0.5 μM.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO

A5459 PHA-793887

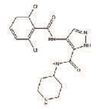
PHA-793887 is a novel and potent inhibitor of CDK2, CDK5 and CDK7 with IC50 values of 8 nM, 5 nM and 10 nM, respectively.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A5719 AT7519

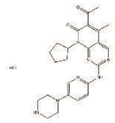
AT7519 is a small-molecule inhibitor of CDKs with IC50 values of 210, 47, 100, 13, 170 and <10 nM for CDK1, CDK2, CDK4, CDK5, CDK6 and CDK9, respectively.



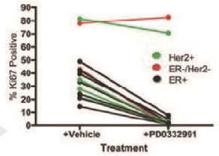
Size:5 mg,10 mg,50mg,100 mg
Soluble in DMSO > 10 mM

A8316 PD 0332991 (Palbociclib) HCl

PD 0332991(Palbocicilb) is a selective and oral inhibitor of CDK 4/6 with IC50 values of 11 nM and 16 nM, respectively.



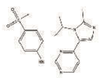
Size:5 mg,25 mg
Limited solubility



Quantification of Ki67 from pD 0332991 treated cultures.

A8326 AZD 5438

AZD 5438 is a potent small molecule inhibitor of CDK 1, 2 and 9 with IC50 values of 16 nM, 6 nM and 20 nM, respectively.

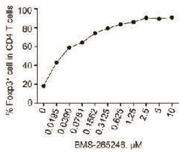


Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A8385 BMS265246

BMS265246 is a potent and selective inhibitor for CDK1 and CDK2 with IC50 values of 6 nM and 9 nM.

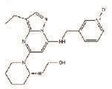
Size:5 mg,10 mg
Soluble in DMSO > 10 mM



Inhibition of CDK2 by BMS265246 promots iTreg cell differentiation.

A8412 Dinaciclib (SCH727965)

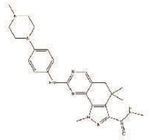
Dinaciclib (SCH727965) is a potent CDK inhibitor with IC50 values for CDK2, CDK5, CDK1 and CDK9 at 1 nM, 1 nM, 3 nM and 4 nM, respectively.



Size:5 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A8501 PHA-848125

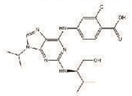
PHA-848125 is a potent and ATP-competitive CDK2/cyclin A inhibitor with an IC50 value of 45 nM.



Size:5 mg,10 mg
Soluble in DMSO > 10 mM

A8565 Purvalanol B

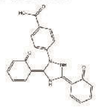
Purvalanol B is a selective inhibitor of CDK1, CDK2 and CDK4.



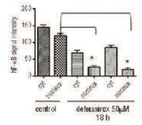
Size:5 mg,10 mg,50mg
Soluble in DMSO > 10 mM

A8639 Deferasirox

Deferasirox is an orally iron chelator used for the treatment of iron-overload disease.



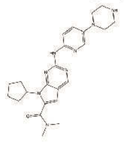
Size:5 mg,10 mg
Soluble in DMSO > 10 mM



Deferasirox inhibits NF-kB activity in K562 cells.

A8641 LEE011

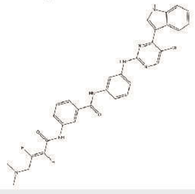
LEE011 (NVP-LEE011) is a highly specific inhibitor of CDK4/CDK6 and functions via decreasing in phosphorylated RB and FOXM1.



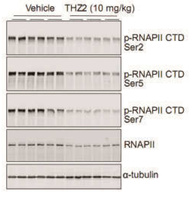
Size:5 mg,10 mg,25 mg,50 mg
Limited solubility

A8717 THZ2

THZ2 is a potent and selective CDK7 inhibitor (IC50: 13.9 nM).



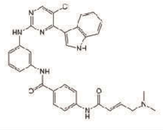
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



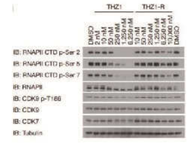
THZ2 signficantly reduces CTD phosphorylation of RNAPII.

A8882 THZ1

THZ1 is an irreversible, potent and selective inhibitor of CDK7 (cyclin-dependent kinase 7) with an IC50 value of 3.2 nM.



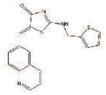
Size:5 mg,10 mg,25 mg
Soluble in DMSO



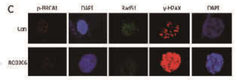
THZ1 inhibits RNAPII CTD phosphorylation.

A8885 Ro 3306

RO-3306 is an ATP-competitive, potent CDK1 inhibitor with Ki values of 35 and 110 nM for cdk1/cyclin B1 and cdk1/cyclin A, respectively.



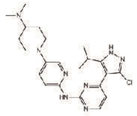
Size:10 mg,50 mg
Soluble in DMSO



RO3306 effects on MDA-MB-231 viability.

B1233 CDK4 inhibitor

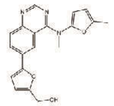
CDK4 inhibitor is a selective inhibitor of cyclin-dependent kinase 4 with IC50 value of 10 nM.



Size:10 mg,25 mg,50 mg,100 mg
Soluble in DMSO

B3707 ML167

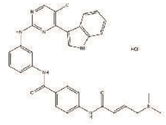
ML167 is a highly selective inhibitor of Cdc2-like kinase 4 (Clk4) with IC50 value of 136 nM.



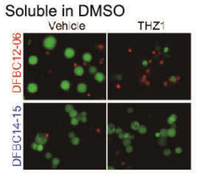
Size:10 mg,25 mg
Soluble in DMSO > 10 mM

B4736 THZ1 Hydrochloride

THZ1 is a covalent inhibitor of CDK7 with IC50 value of 3.2 nM.



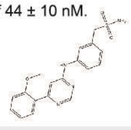
Size:5 mg,10 mg,25 mg
Soluble in DMSO



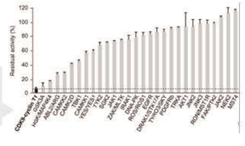
THZ1 effectively reduces TNBC cells viability.

B4754 LDC000067

LDC000067 (LDC067) is a novel specific inhibitor of CDK9 with IC50 value of 44 ± 10 nM.



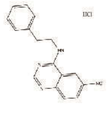
Size:10 mg,50 mg
Soluble in DMSO > 10 mM



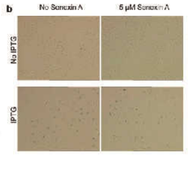
Inhibition of kinase catalytic activity by 10 μM LDC067.

B7716 Senexin A

Senexin A is a Cyclin-dependent kinase 8 (CDK8) inhibitor with IC50 value of 280 nM.



Size:10mg
Soluble in DMSO > 10 mM



Effects of Senexin A in HT1080 p21-9 cells on cell morphology.

Microtubule/Tubulin Inhibitors/Activators

Potency Comparison

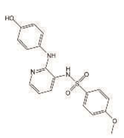
Inhibitors	Microtubule	Tubulin	Chromosome mis-alignment
10-DAB (10-Deacetylbaccatin)	*		
ABT-751 (E7010)	*		
Vincristine	*** (Ki:0.085 μM)		
Colchicine		* (IC_{50}:3.2 μM)	
Monomethyl auristatin E		*	
MPC 6827 hydrochloride	**** (IC_{50}:1.5 - 3.4 nM)		
ABT-751 (E7010)	*		
Vincristine	*** (Ki:0.085 μM)		
INH6			*
D-64131		*** (IC_{50}:62 nM)	
CYT997 (Lexibulin)	*** (IC_{50}:10-100 nM)		
Dolastatin 10		* (IC_{50}:1.2 μM)	
CW069	* HSET(IC50:75 μM)		
Vincristine	*** (Ki:0.085 μM)		
TAI-1			*

Activators	Microtubule	Tubulin	Chromosome mis-alignment
Paclitaxel (Taxol)	***** (IC_{50}:0.1 pM)		
CK-636	*		
Epothilone A	*		
Epothilone B (EPO906, Patupilone)	*		
Docetaxel	*		
Paclitaxel (Taxol)	***** (IC_{50}:0.1 pM)		
Docetaxel Trihydrate	*		
Docetaxel	*		

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1493 ABT-751 (E7010)

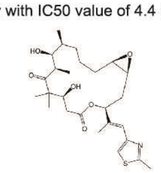
ABT-751 (E 7010) is a novel bioavailable tubulin-binding and antimitotic agent.



Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A1623 Epothilone A

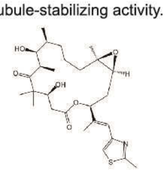
Epothilone A is a macrolide antitumor agent with microtubule-stabilizing activity with IC50 value of 4.4 nM in HCT-116 cell line.



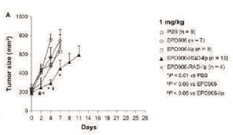
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A1630 Epothilone B (EPO906, Patupilone)

Epothilone B (EPO906, Patupilone) is a macrolide antitumor agent with microtubule-stabilizing activity.



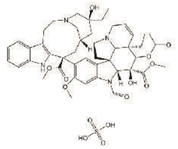
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



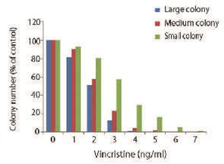
EPO906 reduces the size of RH-30 rhabdomyosarcoma.

A1765 Vincristine

Vincristine potently inhibits the tubulin addition with Ki value of 0.085 μM and exhibits an anti-proliferative activity against B16 melanoma cells with IC50 value of 0.45 M.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



Effect of vincristine on colony formation.

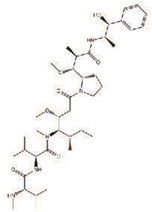
A3324 Colchicine

Colchicine, a tubulin inhibitor, which block polymerization of microtubules by binding to tubulin (IC50 : 3.2 μM).

Size:250 mg,500 mg,1 g
Soluble in DMSO > 10 mM

A3631 Monomethyl auristatin E

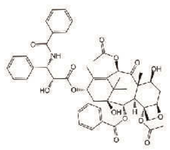
Monomethyl auristatin E (MMAE) is a potent antimitotic agent by blocking the polymerisation of tubulin with IC50 value less than 1 nM for various cancer cell lines.



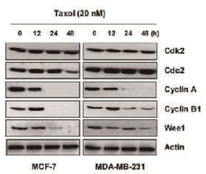
Size:1 mg,5mg,10 mg,50 mg
Soluble in DMSO

A4393 Paclitaxel (Taxol)

Paclitaxel (Taxol) is a microtubule polymer stabilizer with IC50 of 0.1 pM in human endothelial cells.



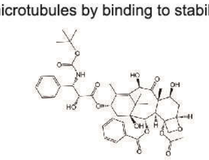
Size:50 mg,100 mg,500mg
Soluble in DMSO > 10 mM



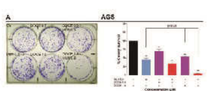
Taxol treatment induces G2/M arrest.

A4394 Docetaxel

Docetaxel, an analog of taxol, is an inhibitor of depolymerisation of microtubules by binding to stabilized microtubules.



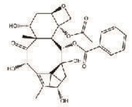
Size:50 mg,100 mg
Soluble in DMSO > 10 mM



MLN8237 and Docetaxel combination treatment inhibits cell survival.

A4395 10-DAB (10-Deacetylbaccatin)

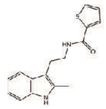
10-DAB (also known as 10-Deacetylbaccatin) is an intermediate used for the preparation of taxol.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

B3058 CK-636

CK-636 is an Arp2/3 complex inhibitor with IC50 of 4 μM, 24 μM and 32 μM for inhibition of actin polymerization induced by human, fission yeast and bovine Arp2/3 complex, respectively.



Size:10 mg,25 mg
Soluble in DMSO > 10 mM

B7788 MPC 6827 hydrochloride

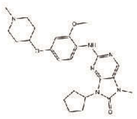
MPC-6827 is a small-molecule microtubule-destabilizing agent that causes mitotic arrest and cell death.

Size:10 mg,50 mg
Soluble in DMSO > 10 mM

Mps1 Inhibitor

A8372 AZ3146

AZ3146 is a potent and selective Monopolar Spindle 1 (Mps1) kinase inhibitor with IC50 value of 35 nM.

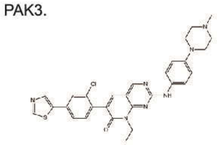


Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

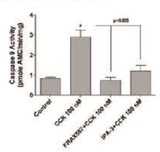
PAK1 Inhibitor

B1162 FRAX597

FRAX597 is an inhibitor of the group 1 p21-activated kinases (PAKs) with IC50 values of 8, 13 and 19 nM, respectively for PAK1, PAK2 and PAK3.



Size:5 mg,25 mg
Soluble in DMSO



Effect of FRAX597 on CCK-mediated apoptosis in pancreatic acini.

PERK Inhibitors

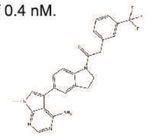
Potency Comparison

Inhibitors	PERK
GSK2606414	***** (IC50:0.4 nM)
ISRIB (trans-isomer)	**** (IC50:5 nM)
GSK2656157	***** (IC50:0.9 nM)

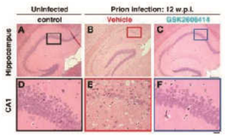
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3448 GSK2606414

GSK2606414 is a potent and selective inhibitor of PERK with IC50 value of 0.4 nM.



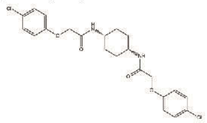
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



GSK2606414 prevents clinical disease in prion-infected mice.

B3699 ISRIB (trans-isomer)

ISRIB (trans-isomer) is a potent inhibitor of the integrated stress response (ISR).

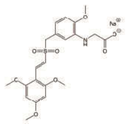


Size:10 mg,25 mg
Limited solubility

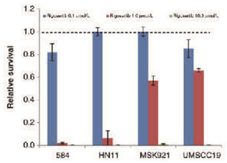
PLK Inhibitors

A1404 Rigosertib (ON-01910,Estybon)

Rigosertib (ON-01910, Estybon)is a non-ATP-competitive small-molecule inhibitor of Plk1 with IC50 value of 9 nM.



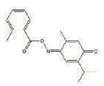
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



Rigosertib induces an antiproliferative effect in HNSCC cells.

A3732 Poloxin

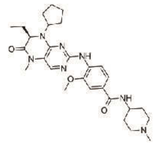
Poloxin is the first small-molecular inhibitor of Plk1.



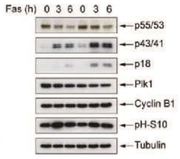
Size:10 mg,50 mg
Soluble in DMSO

A3965 BI 2536

BI 2536 is a potent inhibitor of Plk1 with IC50 of 0.83 nM.



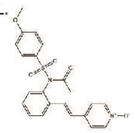
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



BI 2536 inhibits Plk1.

A5413 HMN-214

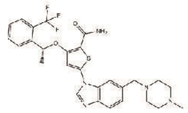
HMN-214 is an oral prodrug of HMN-176, which shows potent cytotoxic activity against several tumor cell lines with an average IC50 of 118 nmol/L.



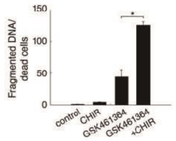
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A8441 GSK461364

GSK461364 is a inhibitor of Plk1 with a Ki value of 2.2 nM.



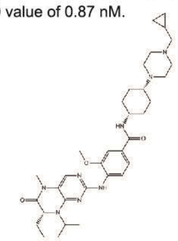
Size:10 mg,50 mg,500 mg
Soluble in DMSO > 10 mM



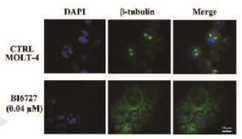
GSK-3 inhibition sensitizes cells to PLK1 inhibitor GSK461364.

A8558 BI6727 (Volasertib)

BI6727 (Volasertib) is a high potent inhibitor of Polo-like kinase with IC50 value of 0.87 nM.



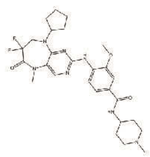
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



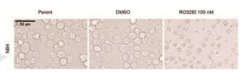
Effects of BI6727 on cell cycle progression of T-ALL cell lines.

A8681 Ro3280

Ro3280 is a potent, highly selective inhibitor of Polo-like kinase 1 (PLK1) with an IC50 value of 3 nM.



Size:5 mg,50 mg
Soluble in DMSO > 10 mM

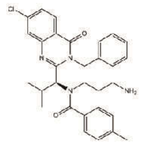


RO3280 inhibits the growth of acute leukemia cells.

Ksp Inhibitor

A5343 Ispinesib (SB-715992)

Ispinesib (SB-715992) is a selective inhibitor of KSP with IC50 value of 0.5 nM.

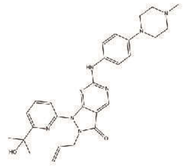


Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

Wee1 Inhibitor

A5755 MK-1775

MK-1775 is a potent and selective small molecule inhibitor of Wee1 kinase, with an IC50 value of 5.2 nM in in vitro kinase assays.



Size:5 mg,10mg,50mg,100mg
Soluble in DMSO > 10 mM

Rho Inhibitors

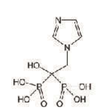
Potency Comparison

Inhibitors	K-Ras (G12C)	Rho A/C	Rac-1 GTPase	Rac-3 GTPase	Cdc42 GTPase	ROCK1	ROCK2
6H05	*						
K-Ras(G12C) inhibitor 6	*						
Zoledronic Acid		*					
NSC 23766			* (IC50:50 μM)				
ZCL278					* (Kd:11.4 μM)		
EHop-016			* (IC50:1.1 μM)	* (IC50:1.1 μM)			
SB 772077B dihydrochloride						**** (IC50:5.6 nM)	**** (IC50:5.6 nM)
AS 1892802						** (IC50:122 nM)	*** (IC50:52/57 nM)
CCG-1423		* (IC50:1.5 μM)					

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1352 Zoledronic Acid

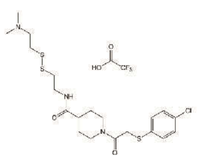
Zoledronic acid, one of the most potent nitrogen-containing bisphosphonates, induces anti-proliferative and apoptotic effects and inhibits proliferation of human foet.



Size:25mg,100mg
Limited solubility

A8902 6H05

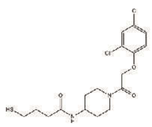
6H05 is a selective inhibitor of the common oncogenic mutant K-Ras (G12C).



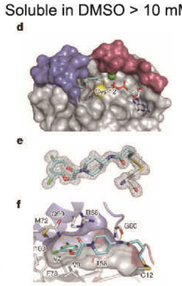
Size:5 mg,25 mg
Soluble in DMSO > 10 mM

B3694 K-Ras(G12C) inhibitor 6

K-Ras (G12C) inhibitor 6 is an allosterical inhibitor of oncogenic mutation K-Ras G12C.



Size:10 mg,25 mg
Soluble in DMSO > 10 mM

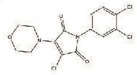


Inhibition effect of K-Ras (G12C) inhibitor 6.

RAD51 Inhibitor

A3764 RI-1

RI-1 is the inhibitor of RAD51 in cancer cells with the value of IC50: 5~30 uM.

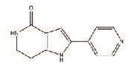


Size:5 mg,10mg,50mg
Soluble in DMSO > 10 mM

Cdc7 Inhibitor

A3721 PHA-767491

PHA-767491 is a small-molecule inhibitor of Cdc7 kinase with IC50 value of 10 nM.

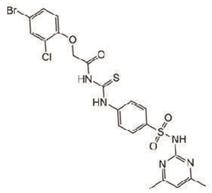


Size:10 mg,50 mg
Soluble in DMSO > 10 mM

Cdc42 Inhibitor

A8300 ZCL278

ZCL278 is a selective inhibitor of Cdc42 with Kd value of 11.4 μM.

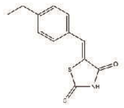


Size:10 mg,25 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

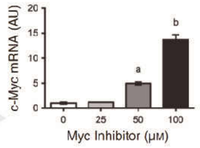
c-Myc Inhibitor

A1169 10058-F4

10058-F4 is a novel small-molecule inhibitor of c-Myc.

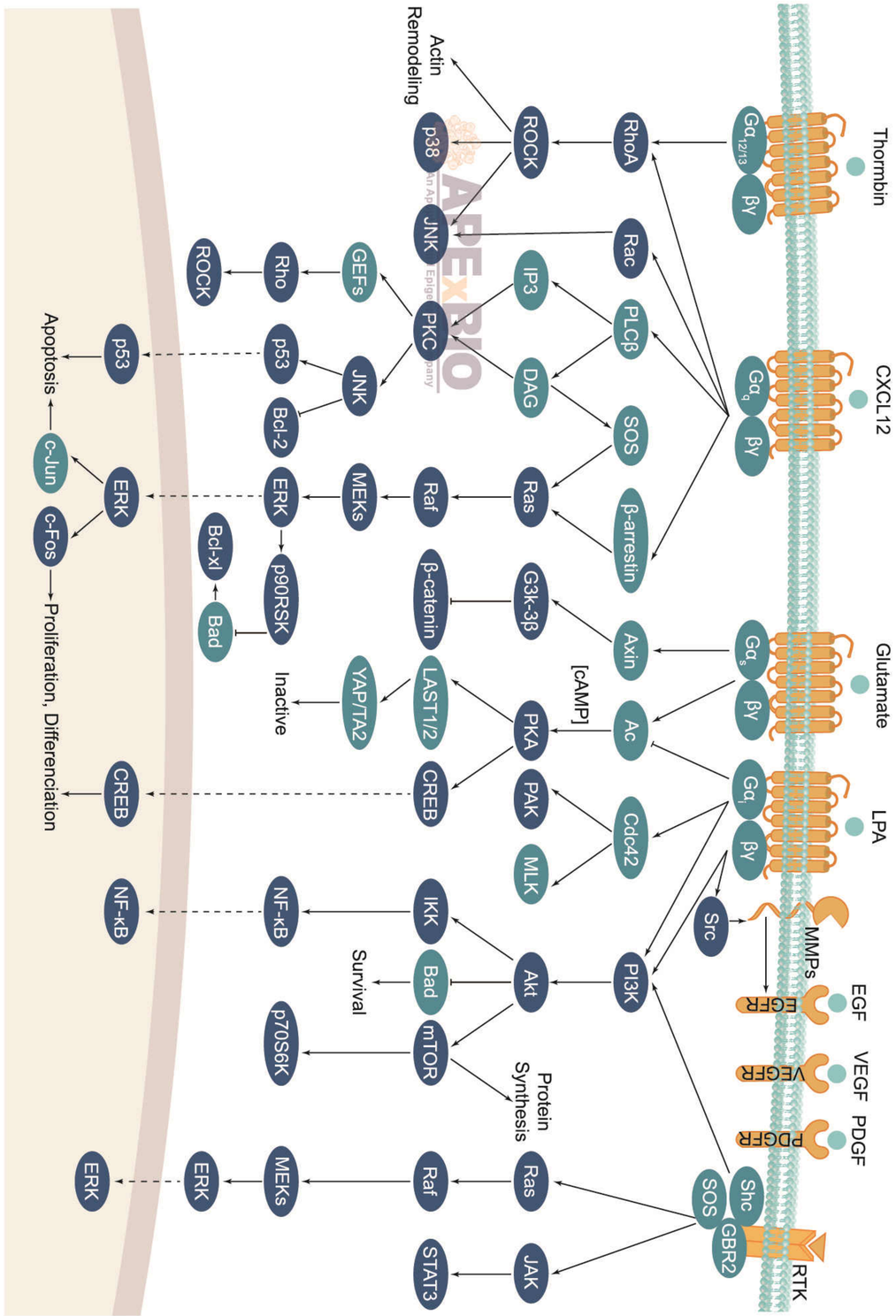


Size:5mg,10 mg,50 mg
Soluble in DMSO > 10 mM



Treatment with 10058-F4,the c-Myc inhibitor, on C2C12 myotubes.

GPCR/G Protein



5-HT Receptor Inhibitors

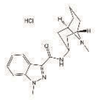
Potency Comparison

Inhibitors	5-HTR	5-HT1AR	5-HT1BR	5-HT1CR	5-HT1DR	5-HT2R	5-HT2AR	5-HT2BR	5-HT2CR	5-HT4R	5-HT7R	5-HT uptake
Sarpogrelate HCl							**** (pKi:8.52)	** (pKi:6.57)	*** (pKi:7.43)			
Agomelatine								** (pKi:6.6 nM)	** (pKi:6.2 nM)			
Blonanserin						*						
Cisapride										*		
Clozapine N-oxide						*						
Dapoxetine HCl												*
Duloxtine HCl												*
Eletriptan HBr			*		*							
Fenspiride HCl			*	*								
Fluoxetine HCl												***** (Ki:0.9 nM)
Lurasidone HCl		**** (IC_{50}:6.75 nM)					**** (IC50:2.03 nM)				***** (IC_{50}:0.495 nM)	
Loxapine	*											
Desvenla-faxine												*** (Ki:40.2 nM)
SB 271046 HCl		** (pKi:6.35)	** (pKi:6.05)		** (pKi:6.55)							
Asenapine HCl		**** (pKi:8.6)	**** (pKi:8.4)				***** (pKi:10.2)	***** (pKi:9.8)	***** (pKi:10.5)		***** (pKi:9.9)	
Risperidone HCl						***** (Ki:0.16 nM)						
Risperidone mesylate						***** (Ki:0.16 nM)						
Ziprasidone HCl		**** (pKi:8.47)			**** (pKi:8.69)		***** (pKi:9.38)		**** (pKi:8.88)			
Melperone HCl							** (Ki:120 nM)					
Metergoline					*	*					*	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1295 Granisetron HCl

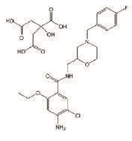
Granisetron HCl is a 5-HT3 receptor antagonist that possesses potent antiemetic activity.



Size:5 mg,50 mg,100 mg
Limited solubility

A1334 Mosapride Citrate

Mosapride Citrate acts as 5-HT4 receptor agonist and 5-HT3 receptor antagonist, and displays no activity at D2, α1, α2, 5-HT1 and 5-HT2 receptors.

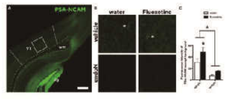


Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A2436 Fluoxetine HCl

Fluoxetine HCl is a selective serotonin reuptake inhibitor, which binds to the human 5-HT transporter with a Ki of 0.9 nMol/l and is between 150- and 900- fold selective over 5-HT1A, 5-HT2A, H1, α1, α2-a.

Size:100 mg,500 mg
Soluble in DMSO > 10 mM



PSA-NCAM expression in the Visual Cortex.

A2547 Vortioxetine (Lu AA21004) HBr

Vortioxetine (Lu AA21004) HBr is an antidepressant and a serotonin (5-HT) receptor modulator with Ki values of 3.7, 19, 200, 33, 15, and 1.6 nM, to human 5-HT3A, h5-HT7, rat 5-HT7, h5-HT1B, h5-HT1A receptor and h5-HT transporter (hSERT), respectively, with an IC50 value of 2080 nM to r5-HT7 receptor, and with an EC50 value of 460 nM to h5-HT1B receptor.

Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

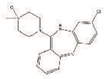
A3241 Bilobalide

Bilobalide is a biologically active terpenic trilactone present in Ginkgo biloba with IC50 of 3.33 nM.

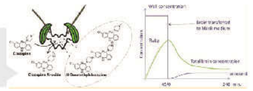
Size:25 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A3317 Clozapine N-oxide

Clozapine-N-oxide is a metabolite of clozapine, which reduces the density of 5-HT2 receptor in rat primary cortical cells.



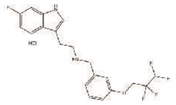
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM



The back-transformation of CNO into clozapine.

A3561 Lu AE58054 Hydrochloride

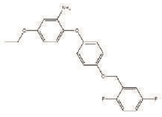
Lu AE58054 hydrochloride is an in-vivo binding affinity and effect, in-vitro selectivity and potency of 5-HT(6)R antagonist with Ki value of 0.83 nM.



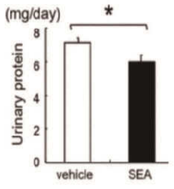
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO

A3811 SEA0400

SEA0400 is a potent and selective inhibitor of Na+-Ca2+ exchanger (NCX) with IC50 values of 5 to 33 nM in cultured neurons, microglia and astrocytes.



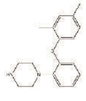
Size:5 mg,10 mg,200 mg
Soluble in DMSO



Urinary protein excretion of control and SEA-treated WKY.

A3926 Vortioxetine

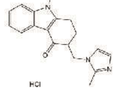
Vortioxetine is an antagonist of 5-HT3 receptor with IC50 value of 12 nM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO

A5166 Ondansetron HCl

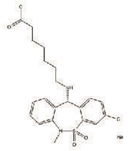
Ondansetron hydrochloride dihydrate is a serotonin-3 (5-HT3) receptor antagonist.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A5322 Tianeptine sodium

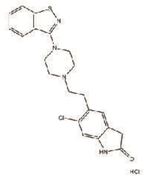
Tianeptine sodium is a selective facilitator of 5-HT uptake in vitro and in vivo.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A5350 Ziprasidone HCl

Ziprasidone HCl is a potent serotonin and dopamine receptor antagonist.



Size:100 mg
Soluble in DMSO > 10 mM

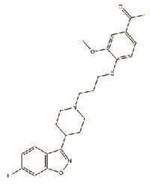
A5355 Venlafaxine

Venlafaxine acts as a dual serotonin/noradrenalin re-uptake inhibitor that displays ~ 30-fold higher affinity for SERT than NET with Ki values of 82 and 2480 nM, respectively.

Size:100 mg
Soluble in DMSO > 10 mM

A5399 Iloperidone

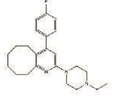
Iloperidone is an anti-psychotic combined dopamine (D2) and serotonin (5HT2) receptor antagonist.



Size:10mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A8384 Blonanserin

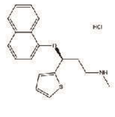
Blonanserin (Lonasen) is a relatively new atypical antipsychotic commercialized by Dainippon Sumitomo Pharma in Japan and Korea for the treatment of schizophrenia.



Size:20 mg,100 mg
Limited solubility

A8421 Duloxetine HCl

Duloxetine HCl is a selective serotonin and norepinephrine reuptake inhibitor .

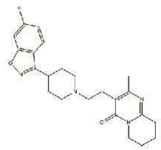


Size:10 mg,100 mg
Soluble in DMSO > 10 mM

GPCR/G Protein

A8514 Risperidone

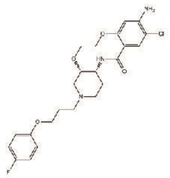
Risperidone is an atypical antipsychotic agent that inhibits SR-2A and D2DR with Ki values of 0.4 and 3.13 nM for 5-SR-2A and D2DR receptors respectively.



Size:10 mg,50 mg,100 mg
Limited solubility

B1198 Cisapride

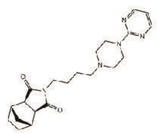
Cisapride (R 51619) is a nonselective 5-HT4 receptor agonist, it is also a potent human ether-à-go-go-related gene (hERG) potassium channel inhibitor.



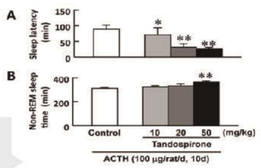
Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B1199 Tandospirone

Tandospirone (SM-3997; sediel) is an anxiolytic and antidepressant.



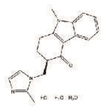
Size:10 mg,50 mg
Soluble in DMSO > 10 mM



Effects of tandospirone on sleep latency and non-REM sleep time.

B1204 Ondansetron hydrochloride dihydrate

Ondansetron (GR38032) is a serotonin 5-HT3 receptor antagonist used mainly as anantiemetic (to treat nausea and vomiting), often following chemotherapy.



Size:10 mg,25 mg,50 mg
Soluble in DMSO

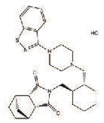
B1206 Pizotifen

Pizotifen (Pizotyline) is a highly selective 5-HT receptor blocking agent, which is a benzocycloheptane based drug.

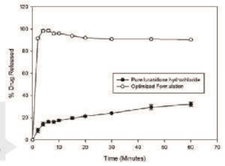
Size:100 mg,300 mg,500 mg
Soluble in DMSO

B1477 Lurasidone HCl

Lurasidone HCl (SM 13496 HCl) is an inhibitor of Dopamine D2, 5-HT2A, 5-HT7, 5-HT1A and noradrenaline α2C with IC50 of 1.68 nM, 2.03 nM, 0.495 nM, 6.75 nM and 10.8 nM, respectively, which is an atypical antipsychotic.



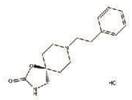
Size:10 mg,50 mg
Limited solubility



Drug release comparison of SM 13496 Hcl and optimized nanocrystals.

B1754 Fenspiride HCl

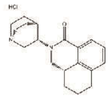
Fenspiride HCl is an α adrenergic and H1 histamine receptor antagonist.



Size:5 g,25 g
Soluble in DMSO > 10 mM

B2229 Palonosetron HCl

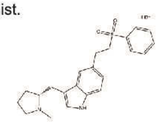
Palonosetron Hcl is a 5-HT3 antagonist used in the prevention and treatment of chemotherapy-induced nausea and vomiting (CINV).



Size:25 mg,200 mg
Limited solubility

B2237 Eletriptan HBr

Eletriptan hydrobromide is a orally active, selective 5-HT1B/1D receptor agonist.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

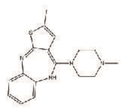
B2239 Lorcaserin HCl

Lorcaserin HCl is a selective full agonist of human 5-HT2C receptor with Ki of 15 nM.

Size:5 mg,50 mg,500 mg,1 g
Soluble in DMSO > 10 mM

B2240 Olanzapine

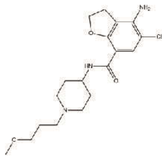
Olanzapine (LY170053) is a high affinity for 5-HT2 serotonin and D2 dopamine receptor antagonist.



Size:1 g,5 g
Soluble in DMSO > 10 mM

B2253 Prucalopride

Prucalopride is a selective, high affinity 5-HT receptor agonist for 5-HT4A and 5-HT4B receptor with Ki of 2.5 nM and 8 nM, respectively, exhibits >290-fold selectivity against other 5-HT receptor subtypes.

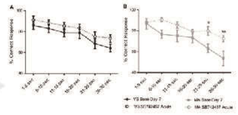


Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B2256 SB742457

SB742457 is a selective antagonist of 5-HT6 receptor with a pKi value of 9.63.

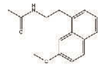
Size:5 mg,25 mg
Soluble in DMSO > 10 mM



Influence of SB742457 on working memory in YG and MA rats.

B2262 Agomelatine

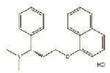
Agomelatine is an agonist of melatonin receptors and an antagonist of the serotonin 5-HT2C receptor with Ki values of 0.062 nM and 0.268 nM and IC50 value of 0.27 μM for MT1, MT2 and 5-HT2C, respectively.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

B2264 Dapoxetine HCl

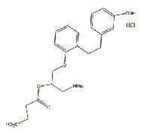
Dapoxetine HCl is a short-acting novel selective serotonin reuptake inhibitor(SSRI).



Size:25 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

B3494 Sarpogrelate hydrochloride

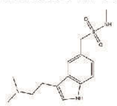
Sarpogrelate (MCI-9042) was shown to have the same affinity as ritanserin for 5-HT2A receptors with Ki value of 8.39 nM.



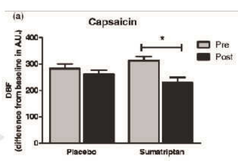
Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

B4981 Sumatriptan

Sumatriptan succinate is a selective 5-HT1 receptor agonist with specificity towards 5-HT1D, 5-HT1B and 5-HT1A.



Size:100 mg
Soluble in DMSO

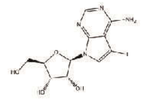


Effect of sumatriptan on maximal DBF response to capsaicin.

Adenosine Kinase Inhibitor

A3125 5-Iodotubercidin

5-Iodotubercidin (Itu) is a purine derivative and hence an inhibitor of adenosine kinase with an IC50 value of 26 nM.

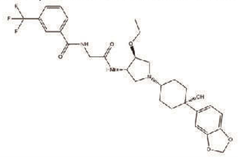


Size:5 mg,50 mg
Soluble in DMSO > 10 mM

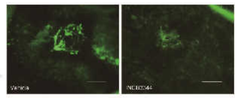
CCR2 Inhibitor

A3494 INCB3344

INCB3344 is a novel potent and selective antagonist of CCR2 receptor, which possesses an IC50 of 10 nM for CCL2.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO



Effect of INCB3344 on CNV formation.

Calcimimetic Agents

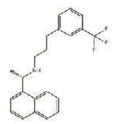
Potency Comparison

Inhibitors	Calcimimetic Agent
Cinacalcet	*
Cinacalcet HCl	* (IC_{50}:2.8 μM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3313 Cinacalcet

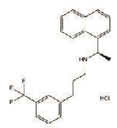
Cinacalcet (AMG-073) is an orally active, second-generation calcimimetic compound for the treatment of hyperparathyroidism.



Size:50 mg,500 mg
Soluble in DMSO

B1423 Cinacalcet HCl

Cinacalcet HCl (AMG 073), the second-generation calcimimetic, is a potent agonist of calcium-sensing receptor (CaR) with an EC50 value of 2.8 μm.



Size:50 mg,500 mg
Soluble in DMSO > 10 mM

GPCR/G Protein

Adenosine Receptor Inhibitors

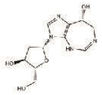
Potency Comparison

Inhibitors	Adenosine Receptor	Adenosine A1 R	Adenosine A2A R	Adenosine A2B R	Adenosine A3 R
Istradefylline (KW-6002)			**** (Ki:2.2 nM)		
Pentostatin					
Preladenant			**** (Ki:1.1 nM)		
Tozadenant					
8-(3-Chlorostyryl)caffeine		* (IC_{50}:28.2 μM)	*** (Ki:54 nM)		
CGH 2466 dihydrochloride		*** (IC_{50}:19 nM)		**** (IC_{50}:21 nM)	**** (IC_{50}:80 nM)
Istradefylline (KW-6002)			**** (Ki:2.2 nM)		
Preladenant			**** (Ki:1.1 nM)		
PSB 0777 ammonium salt			*** rA2A(Ki:44.4 nM)		
NECA	* (IC_{50}:10 μM)				
N6-Cyclopentyladenosine		**** hA1(Ki:2.3 nM)	** hA2A(Ki:790 nM)	* hA2B(EC50:18.6 μM)	*** hA3(Ki:43 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3708 Pentostatin

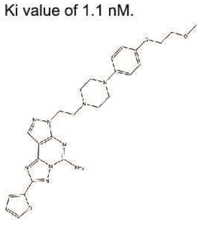
Pentostatin is a irreversible adenosine deaminase inhibitor.



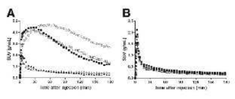
Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A3735 Preladenant

Preladenant is a high selective antagonist of adenosine A2A receptor with Ki value of 1.1 nM.



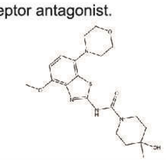
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO



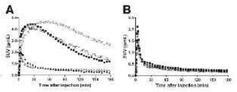
Time–activity curves of preladenant for rhesus macaque.

A3885 Tozadenant

Tozadenant (SYN115) is an orally active, selective adenosine A2A receptor antagonist.



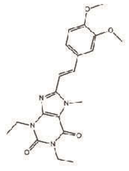
Size:10 mg,50 mg,250 mg
Soluble in DMSO



Time–activity curves of tozadenant for rhesus macaque.

A8454 Istradefylline (KW-6002)

Istradefylline is a selective antagonist of adenosine A2A receptor (A2AR) with a Ki value of 2.2 nM.

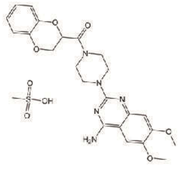


Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

Adrenergic Receptor Inhibitors

A2884 Doxazosin Mesylate

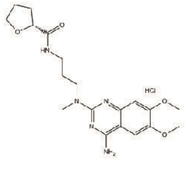
Doxazosin Mesylate is a selective, long-lasting antagonist of α1-adrenergic receptor.



Size:50 mg,100 mg
Soluble in DMSO > 10 mM

A5173 Alfuzosin HCl

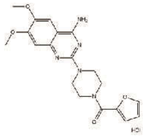
Alfuzosin HCl is a functionally uro-selective α1 adrenoceptor antagonist that does not discriminate between α1 subtypes.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A5318 Prazosin HCl

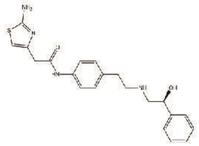
Prazosin HCl is potent antagonist for α1 and α2B-adrenoceptor, melatonin MT3 receptor (Ki = 10.2 nM).



Size:100 mg
Limited solubility

A8474 Mirabegron (YM178)

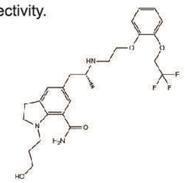
Mirabegron activates the β3 adrenergic receptor in the detrusor muscle in the bladder, which leads to muscle relaxation and an increase in bladder capacity.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A8521 Silodosin

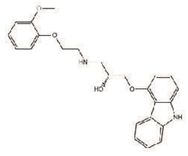
Silodosin (Rapaflo) is an α1-adrenoceptor antagonist with high uroselectivity.



Size:500 mg,1 g
Soluble in DMSO > 10 mM

B1332 Carvedilol

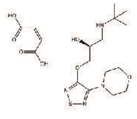
Carvedilol is a non-selective beta blocker/alpha-1 blocker with an IC50 of 3.8 μM for inhibition of LDL oxidation.



Size:5 g,25 g
Soluble in DMSO > 10 mM

B1350 Timolol Maleate

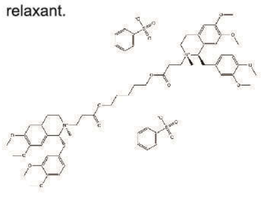
(S)-Timolol maleate is a potent non-selective β-adrenergic receptor antagonist with Ki values of 1.97 and 2.0 nM for β1 and β2 receptor subtypes, respectively.



Size:100 mg,250 mg
Soluble in DMSO > 10 mM

B1355 Cisatracurium Besylate

Cisatracurium is a neuromuscular-blocking drug or skeletal muscle relaxant.



Size:25 mg,100 mg
Soluble in DMSO > 10 mM

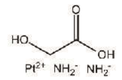
B1364 Scopine

Scopine is the metabolite of anisodine, which is a α1-adrenergic receptor agonist and used in the treatment of acute circulatory shock.

Size:25 mg,100 mg
Soluble in DMSO > 10 mM

B1986 Nedaplatin

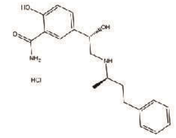
Nedaplatin is a derivative of cisplatin and DNA damage agent for tumor colony forming units with IC50 of 94 μM.



Size:10 mg,25 mg
Soluble in DMSO

B4795 Labetalol HCl

Labetalol HCl is a potent adrenergic blocking agent that can smoothly control blood pressure.

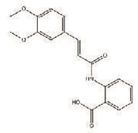


Size:100 mg,200 mg
Soluble in DMSO > 10 mM

Angiotensin Receptor Inhibitors

A5375 Tranilast

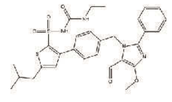
Tranilast is an effective inhibitor of angiogenesis.



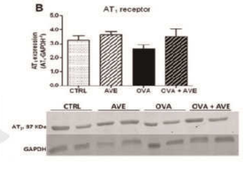
Size:100 mg
Soluble in DMSO > 10 mM

B1007 AVE 0991

AVE 0991 is an agonist of angiotensin-(1-7) receptor (AR) inhibitor with IC 50 of 16 nmol/L.



Size:5 mg,10 mg,25 mg,50 mg,100 mg
Soluble in DMSO

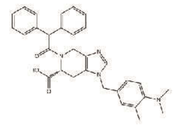


Expression of angiotensin receptor proteins in lung tissue.

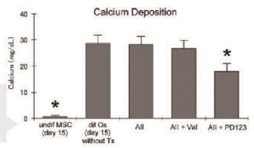
GPCR/G Protein

B2206 PD123319

PD123319 is a non-peptide inhibitor of angiotensin II receptor with IC50 value of 34 nM.



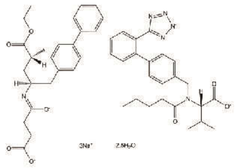
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM



Effects of angiotensin II and PD123319 on calcium deposition.

B4815 LCZ696

LCZ696 is a first in class ARNi (angiotensin receptor neprilysin inhibitor) comprising anionic moieties of AR valsartan and the neprilysin inhibitor prodrug AHU377 (1:1 ratio) for heart failure and hypertension.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

Cannabinoid Receptor Inhibitors

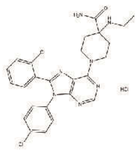
Potency Comparison

Inhibitors	Cannabinoid Receptor
AM1241	**** (KI:3.4 nM)
CP-945598 HCl	*
Rimonabant	*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1435 CP-945598 HCl

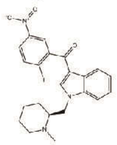
CP 945598 hydrochloride is a selective CB1 antagonist with Ki value of 0.7 and 0.12 nM for binding and functional assays, respectively.



Size:5 mg,25 mg,100 mg
Limited solubility

A5827 AM1241

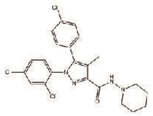
AM-1241 is a selective cannabinoid CB2 receptor agonist with Ki of 3.4 nM, exhibiting 82-fold selectivity over CB1 receptor.



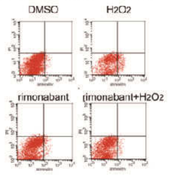
Size:5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM

B1429 Rimonabant

Rimonabant (SR141716) is a potent and selective antagonist of CB1 and CB2 with Ki values of 1.8 nM and 514 nM, respectively.



Size:25 mg,100mg,1 g
Soluble in DMSO > 10 mM



Rimonabant attenuates H2O2-induced apoptosis.

CXCR Inhibitors

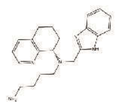
Potency Comparison

Inhibitors	CXCR1	CXCR2	CXCR3	CXCR4
AMD-070				*** (IC_{50}:13 nM)
Plerixafor 8HCl				*** (IC_{50}:44 nM)
Reparixin		*		
SCH 527123	*** (IC_{50}:42 nM)	**** (IC_{50}:3 nM)		
AMD 3465 hexahydrobromide				*
AMD 3465				*
SCH 546738			***** (Ki:0.4 nM)	

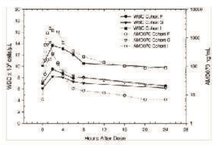
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3173 AMD-070

AMD-070 is a selective and oral bioavailable antagonist of chemokine receptor CXCR4 with IC50 value of 13 nM.



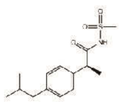
Size:5 mg,10 mg,25 mg,50 mg
DMSO



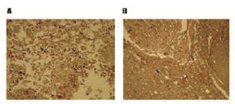
AMD-070 induces a dose-related elevation of WBC.

A3752 Reparixin

Reparixin is a non-competitive allosteric inhibitor of CXCR1/2.



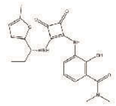
Size:5 mg,10 mg,200 mg
Soluble in DMSO



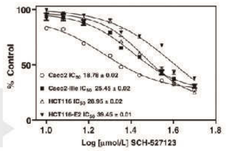
Reparixin reduced neutrophil infiltration into the injury site.

A3802 SCH 527123

SCH-527123 is a novel, selective CXC chemokine receptor 2 (CXCR2) antagonist.



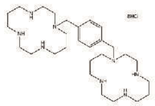
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO



SCH-527123 decreases cell proliferation in colorectal cancer cells.

B1465 Plerixafor 8HCl (AMD3100 8HCl)

Plerixafor 8HCl (AMD3100 8HCl) is a potent and selective antagonist of CXCL12-mediated chemotaxis and G-protein coupled chemokine receptor (CXCR4) with IC50 values of 5.7 and 44 nM, respectively.



Size:25 mg,50 mg,100 mg
Limited solubility

Endothelin Receptor Inhibitors

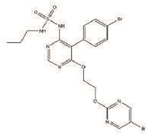
Potency Comparison

Inhibitors	Endothelin Receptor	Endothelin A Receptor
Bosentan Hydrate	* (IC_{50}:15.1 μM)	
Macitentan	***** (IC_{50}:0.5 nM)	
Zibotentan (ZD4054)	*** (IC_{50}:21 nM)	
Sitaxentan sodium		**** (IC_{50}:0.5 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1929 Macitentan

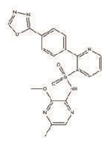
Macitentan is a new dual ETA/ETB endothelin (ET) receptor antagonist, with mean IC50 values of 0.5 ± 0.2 nM (n= 17) to inhibit the binding of 125I-ET-1 to recombinant ETA receptors, and of 391±182 nM (n= 17) for ETB receptors in Chinese hamster ovary cells.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A5489 Zibotentan (ZD4054)

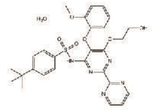
Zibotentan (ZD4054) is a specific antagonist of Endothelin (ET)A with an IC50 value of 21 nM.



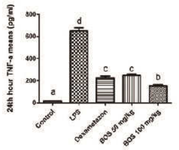
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

B1521 Bosentan Hydrate

Bosentan Hydrate is a sulfonamide-derived, competitive and specific endothelin receptor antagonist with an IC50 of 15.1 ± 1.6 μM for endothelin A receptor in P388/dx cells.



Size:50 mg,100 mg,200 mg,500 mg
Soluble in DMSO > 10 mM



Effect of Bosentan on LPS-Induced Inflammatory TNF-α in Rat AqH.

FFAR1 (GPR40) Inhibitors

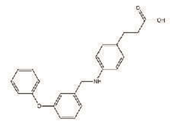
Potency Comparison

Inhibitors	FFAR1 (GPR40)
GW9508	*** (IC_{50}:47 nM)
TAK-875	*** (IC_{50}:14 nM)
TUG-770	**** (IC_{50}:6 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1709 GW9508

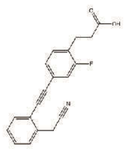
GW9508 is a small-molecule agonist of GPR40 and GPR120 with EC50 values of 47 nM and 2.2 μM, respectively.



Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A3895 TUG-770

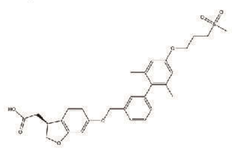
Dovitinib is a multitargeted inhibitor of RTK with IC50 values of 1 nM, 2 nM and 8 nM for FLT3, c-Kit and FGFR1, respectively.



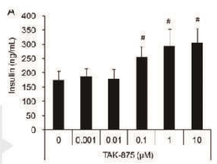
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO

A8339 TAK-875

TAK-875 is a selective agonist of GPR40 with EC50 of 14 nM, 400-fold more potent than oleic acid.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



Treatment of TAK-875 increases insulin secretion.

GPCR/G Protein

Glucocorticoid Receptor Inhibitors/ Activators

Potency Comparison

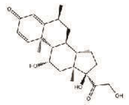
Inhibitor	Glucocorticoid Receptor
Mifepristone	*

Activators	Glucocorticoid Receptor
Dexamethasone acetate	*
Hydrocortisone	*
Methylprednisolone	*
Prednisolone	*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4233 Methylprednisolone

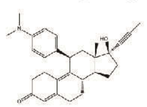
Methylprednisolone is an apoptosis inducer and was also found to inhibit human small cell lung cancer cell growth in vitro.



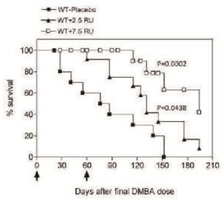
Size:100 mg,250 mg,500 mg,1000 mg
Soluble in DMSO > 10 mM

B1511 Mifepristone

Mifepristone (RU486) is a potent antagonist of progesterone receptor, used as a contraceptive agent.



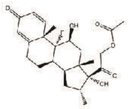
Size:100 mg,1 g
Soluble in DMSO > 10 mM



Mifepristone inhibits mammary carcinogenesis in mice.

B1926 Dexamethasone acetate

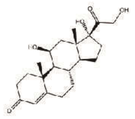
Dexamethasone is a potent synthetic member of the glucocorticoid class of steroid drugs that has anti-inflammatory and immunosuppressant properties.



Size:100 mg,1 g,5 g
Soluble in DMSO > 10 mM

B1951 Hydrocortisone

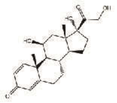
Hydrocortisone is a main glucocorticoid secreted by the adrenal cortex.



Size:50 mg
Soluble in DMSO > 10 mM

B2012 Prednisolone

Prednisolone is a glucocorticoid with the general properties of the corticosteroids.



Size:50 mg
Soluble in DMSO > 10 mM

LPA Receptor Inhibitors

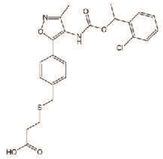
Potency Comparison

Inhibitors	LPA1 Receptor	LPA2 Receptor	LPA3 Receptor
AM095	** (IC_{50}:0.98 μM)		
AM966	*** (IC_{50}:17 nM)		
Ki16198	** (Ki:0.34 μM)		** (Ki:0.93 μM)
Ki16425	** (Ki:0.34 μM)	* (Ki:6.5 μM)	** (Ki:0.93 μM)

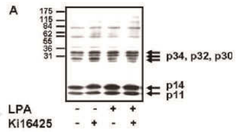
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1987 Ki16425

Ki16425 is a subtype-selective antagonist of lysophosphatidic acid receptor (LPA) with Ki values of 0.34 μM for LPA1, 6.5μM for LPA2, and 0.93μM for LPA3.



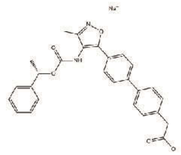
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



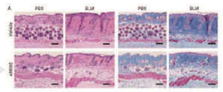
Effect of Ki16425 and LPA on protein phosphorylation.

A3166 AM095

AM095 is a novel, potent and orally bioavailable antagonist of lysophosphatidic acid type 1 receptor (LPA1) with IC50 values of 0.73 and 0.98 μM for mouse or recombinant human LPA1, respectively.



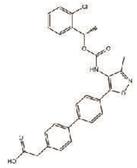
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO



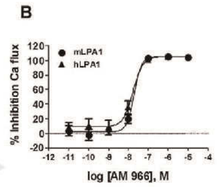
AM095 attenuates bleomycin-induced fibrosis.

A3170 AM966

AM966 is a selective, potent and orally bioavailable antagonist of lysophosphatidic acid type 1 receptor (LPA1) with IC50 values of 17 and 19 nM for?human or mouse LPA1, respectively.



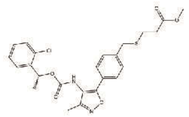
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO



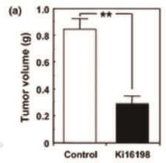
Pharmacological characterization of AM966.

B1591 Ki16198

Ki16198 is the methyl ester of Ki16425, which is a LPA antagonist and inhibits LPA1- and LPA3-induced inositol phosphate production with Ki of 0.34 μM and 0.93 μM, respectively, shows weaker inhibition for LPA2, no activity at LPA4, LPA5, LPA6.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

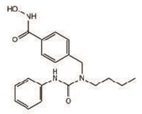


Effect of Ki16198 on tumor volume and invasive activity.

mGluR Inhibitors

B3704 Nexturastat A

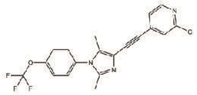
L-Glutamine is a non-essential amino acid present abundantly throughout the body and is involved in gastrointestinal disorders.



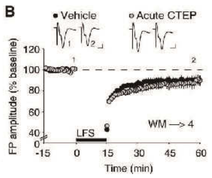
Size:100 g,500 g
Limited solubility

B1633 CTEP (RO4956371)

CTEP is a potent, long-acting, and orally bioavailable inhibitor of metabotropic glutamate receptor 5 (mGlu5) with IC50 value of 11.4nM.



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM



Acute CTEP did not affect LTD magnitude in WT slices.

OX Receptor Inhibitors

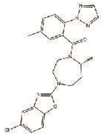
Potency Comparison

Inhibitors	OX receptor
Allopurinol	*
MK-4305	***** (IC_{50}:0.55 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3616 MK-4305

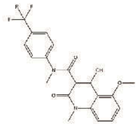
MK-4305 is a potent antagonist of OX1 receptor and OX2 receptor with Ki values of 0.55 nM and 0.35 nM, respectively.



Size:5 mg,10 mg,50 mg,200 mg
Limited solubility

A8360 Allopurinol

Allopurinol is an anti-urolithic Xanthine oxidase inhibitor and is used in treatment of hyperuricemia and chronic gout.

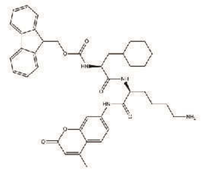


Size:25 g
Soluble in DMSO > 10 mM

Galanin Receptor Inhibitor

B5256 Galnon

Galnon is a galanin receptor ligand with moderate affinity to spinal cord membranes (KD of 6±0.6 μM).

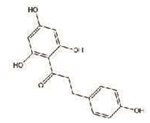


Size:10 mg
Soluble to 67.88 mg/ml in DMSO and to 16.97 mg/ml in ethanol with gentle warming

GLUT1 Inhibitor

A3723 Phloretin

Phloretin is a dihydrochalcone,which inhibits the active transport of glucose into cells via sodium-glucose linked transporter (SGLT) 1 and 2 with IC50 value of 49±12 μM.



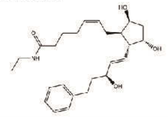
Size:500 mg
Soluble in DMSO > 10 mM

GPCR/G Protein

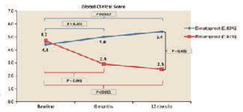
Prostaglandin Receptor Inhibitors

B2139 Bimatoprost

Bimatoprost is a prostaglandin analog used topically (as eye drops) to control the progression of glaucoma and in the management of ocular hypertension.



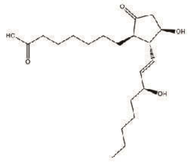
Size:2 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



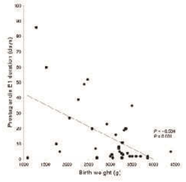
Global clinical score of bimatoprost.

B2154 Alprostadil

Alprostadil (prostaglandin E1) is a prostaglandin, which is used in the treatment of erectile dysfunction and has vasodilatory properties.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM



Prostaglandin E1 duration compared according to birth weight.

Ras Inhibitors

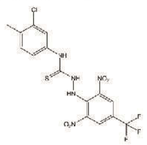
Potency Comparison

Inhibitors	Ras
Kobe0065	* (Ki:46 μM)
kobe2602	* (Ki:149 μM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

B3586 Kobe0065

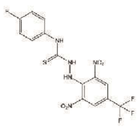
Kobe0065 is a small-molecule inhibitor of Ras with Ki value of 46 μM for the binding of H-Ras.GTP to c-Raf-1.



Size:1 mg
Soluble in DMSO

B3587 Kobe2602

Kobe2602 is a small-molecule inhibitor of Ras with Ki value of 149 μM.



Size:1 mg
Soluble in DMSO

Sigma Receptor Inhibitors

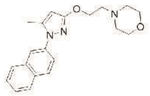
Potency Comparison

Inhibitors	Sigma receptor
PRE-084 hydrochloride	*
S1RA	*** (IC_{50}:17 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

B1179 S1RA

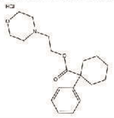
S1RA is a potent and selective antagonist of σ1 receptor (σ1R) with Ki value of 17 nM.



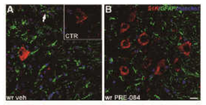
Size:5 mg,10 mg,50 mg
Soluble in DMSO

B6364 PRE-084 hydrochloride

PRE-084 hydrochloride is a selective σ1 agonist with Ki: 2.2 and 13091 nM for σ1 and σ2 receptors respectively.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

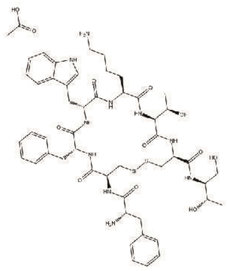


Effects of PRE-084 on S1R protein levels and distribution.

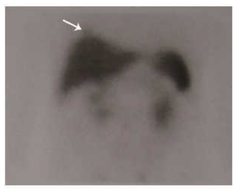
Somatostatin Receptor Inhibitor

B4979 Octreotide acetate

Octreotide acetate (Sandostatin) is an octapeptide congener of native somatostatin, which inhibits the secretion of insulin and glucagon.



Size:10mg,50mg
Soluble to 1.20 mg/ml in sterile water

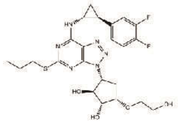


Sandostatin scintigraphy in spot abdominal view.

P2Y Receptor Inhibitor

B2166 Ticagrelor

Ticagrelor is a novel antagonist of the P2Y12 receptor.

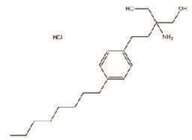


Size:10 mg,100 mg,500 mg
Soluble in DMSO > 10 mM

S1P receptor Inhibitor

A8548 Fingolimod (FTY720)

Fingolimod is a mechanistically novel, orally bioavailable therapy for multiple sclerosis (MS) and interact with S1P1, S1P4, S1P5 and S1P3 receptors as high affinity agonist with EC50 values of 0.3-3.1 nM.



Size:100 mg,200 mg,1 g
Soluble in DMSO > 10 mM

Vasopressin Receptor Inhibitors/Activators

Potency Comparison

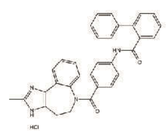
Inhibitors	Vasopressin Receptor	V_{1A} Receptor	V_{1B} Receptor	V_2 Receptor	Oxytocin Receptor
Conivaptan HCl		*		*	
Tolvaptan				***** (Ki:0.43 nM)	
Atosiban	*				*
Mozavaptan		* (IC_{50}:1.2 μM)		*** (IC_{50}:14 nM)	
SR 49059		**** (Ki:1.1-6.3 nM)			
(d(CH2)51,Tyr(Me)2, Arg8)-Vasopressin		**** (IC_{50}:5 nM)			*** (IC_{50}:30 nM)
OPC 21268		*** Human(Ki:8800 nM)			

Activators	Vasopressin Receptor	V_{1A} Receptor	V_{1B} Receptor	V_2 Receptor	Oxytocin Receptor
Desmopressin			*** (EC_{50}:11.4 nM), (Ki:5.84 nM)	*** (EC_{50}:23.9 nM), (Ki:65.9 nM)	
Desmopressin Acetate				*	
d[Cha4]-AVP	*	** (Ki:151 nM)	**** (Ki:1.2 nM)	** (Ki:750 nM)	** (Ki:240 nM)
d[Leu4,Lys8]-VP		* (Ki:3800 nM)	***** (Ki:0.16 nM)	*** (Ki:100 nM)	*** (Ki:64 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A8402 Conivaptan HCl

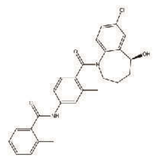
Conivaptan Hydrochloride is a non-peptide inhibitor of antidiuretic hormone. Conivaptan Hydrochloride is used for treatment of congestive heart failure.



Size:10 mg,100 mg
Soluble in DMSO > 10 mM

B2300 Tolvaptan

Tolvaptan is a selective and oral active antagonist of arginine vasopressin (AVP) V2-receptor with Ki value of 0.43 nM.



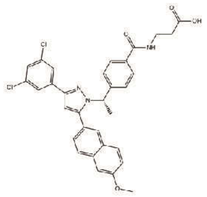
Size:5 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

GPCR/G Protein

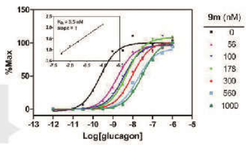
Glucagon Receptor Inhibitor

A3608 MK 0893

MK 0893 is an inhibitor of both glucagon receptor and IGF-1R with IC50 values of 6.6 nM and 6 nM, respectively.



Size:5 mg,10 mg,50 mg
Soluble in DMSO

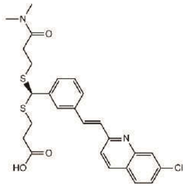


Schild analysis of MK 0893 in CHO cell expressing hGCGR.

Leukotriene Receptor Inhibitor

B7023 MK 571

MK 571 (L-660,711) is a novel potent and selective antagonist of leukotriene D4 receptor with Ki values of 0.22 nM and 2.1 nM in guinea pig and human lung membranes, respectively.

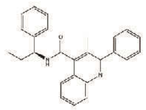


Size:5 mg,10mg,50mg
Soluble in DMSO > 10 mM

NK3 Receptor Inhibitor

A3795 SB-222200

SB 222200 is a selective and potent antagonist of NK-3 receptor.

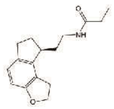


Size:10 mg,50 mg
Soluble in DMSO > 10 mM

MT Receptor Inhibitor

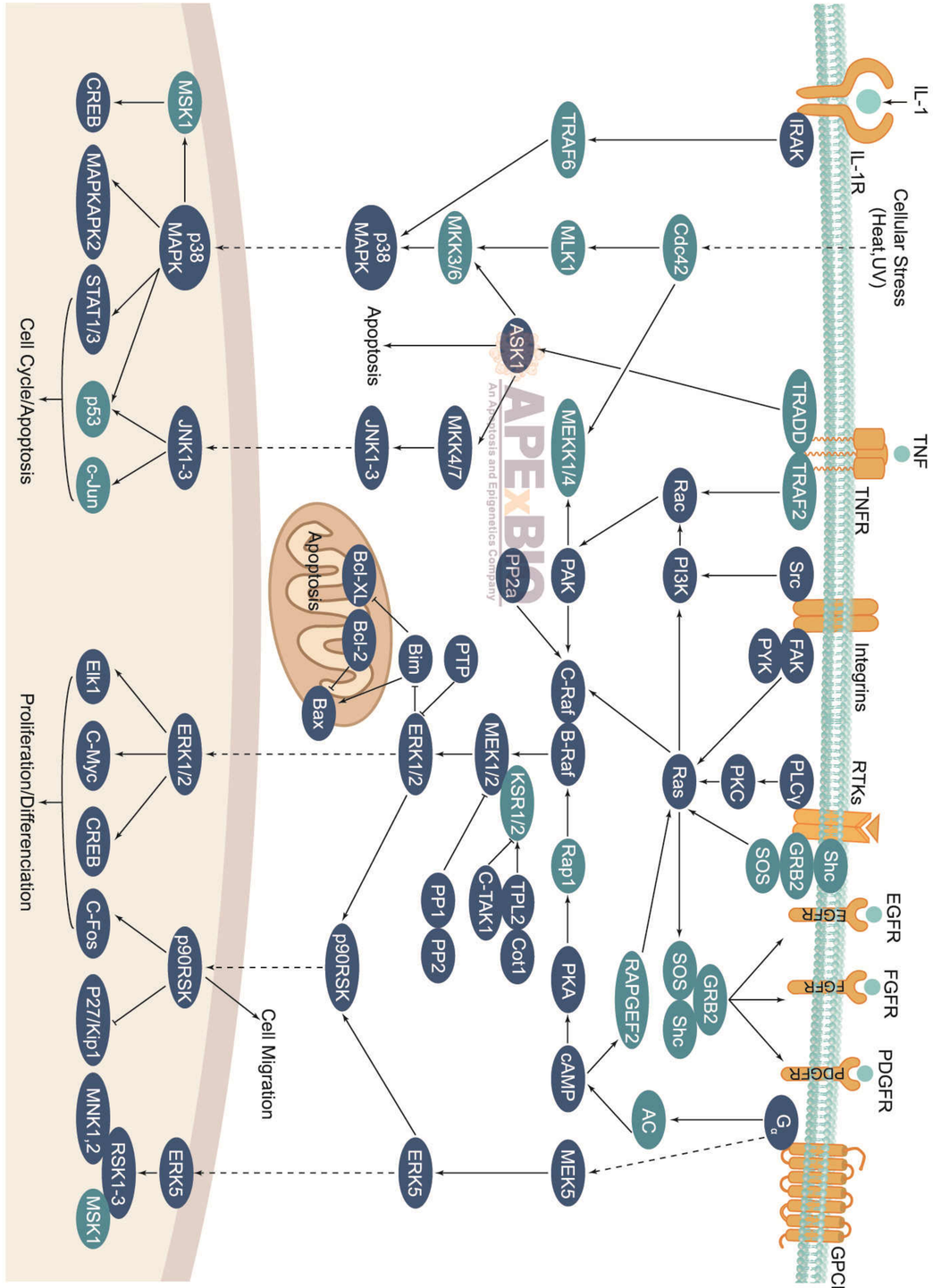
A1748 Ramelteon

Ramelteon is a selective agonist of MT1/MT2 with Ki values of 0.014 nM and 0.045 nM, respectively.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

MAPK Signaling



ERK Inhibitors

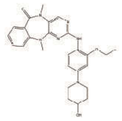
Potency Comparison

Inhibitors	Pan-ERK	ERK 1	ERK 2	ERK 5
FR 180204		** (IC_{50}:0.31 μM)	** (IC_{50}:0.14 μM)	
XMD8-92				*** (Kd:80 nM)
VX-11e	*			
XMD17-109				* (EC_{50}:4.2 μM)
Pluripotin		*		
VRT752271	*			

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3943 XMD8-92

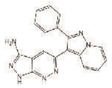
XMD8-92 is a potent inhibitor of Mitogen-activated protein kinase 7 (MAPK7/BMK1; Kd: 80 nM) and blocks EGF-induced activation of BMK1 with IC50 of 240 nM.



Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A8304 FR 180204

FR 180204 is a selective ERK inhibitor with IC50 values of 0.14 and 0.31 μM for ERK2 and ERK1, respectively.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

PKA Inhibitors

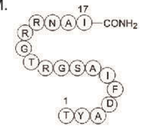
Potency Comparison

Inhibitors	PKA
H 89 2HCl	*** (Ki: 48 nM)
PKA inhibitor fragment (6-22) amide	**** (Ki: 1.6 nM)
cGMP Dependent Kinase Inhibitor Peptide	*
KT 5720	**** (Ki: 56 nM)
PKI 14-22 amide, myristoylated	**** (Ki : 36 nM)

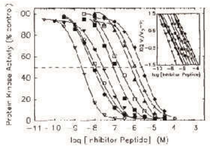
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1117 PKA inhibitor fragment (6-22) amide

PKA inhibitor fragment (6-22) amide is a PKA inhibitor with IC50 of 1.6 nM.



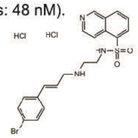
Size:1 mg,5 mg,10 mg,25 mg
Soluble to 1 mg/ml in 20% acetonitrile



Titration of PKA activity by PKI-(6-22)-amide inhibitor peptides.

B2190 H 89 2HCl

H 89 2HCl is a potent and selective inhibitor of protein kinase A (Ki values: 48 nM).



Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM
Product Citation:
J Neurosci (2015). PMID: 26400952

JNK Inhibitors

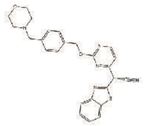
Potency Comparison

Inhibitors	Pan-JNK	JNK1	JNK2	JNK3
AEG 3482	*			
AS 602801	*			
CC-401	*** (Ki:25-50 nM)			
DB07268		**** (IC_{50}:9 nM)		
JNK-IN-7		**** (IC_{50}:1.54 nM)	**** (IC_{50}:1.99 nM)	***** (IC_{50}:0.75 nM)
JNK-IN-8		**** (IC_{50}:4.67 nM)	*** (IC_{50}:18.7 nM)	***** (IC_{50}:980 pM)
SP 600125**		*** (IC_{50}:40 nM)	*** (IC_{50}:40 nM)	*** (IC_{50}:90 nM)
TCS JNK 5a**		* (pIC_{50} <5)	** (pIC_{50}:6.5)	** (pIC_{50}:6.7)
c-JUN peptide	*			
CC-930		*** (IC_{50}:61 nM)	**** (IC_{50}:7 nM)	**** (IC_{50}:6 nM)
CC-401 hydrochloride	*			
SR 3576				**** (IC_{50}:7 nM)
SU 3327	** (IC_{50}:0.7 μM)			
TCS JNK 6o		**** (IC_{50}:2 nM)	**** (IC_{50}:4 nM)	*** (IC_{50}:52 nM)
BI 78D3	** (IC_{50}:280 nM)			
IQ 3		** (Kd:240 nM)	** (Kd:290 nM)	*** (Kd:66 nM)

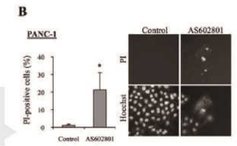
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3189 AS 602801

AS 602801 is a potent and selective JNK inhibitor with therapeutic potential in MS and fibrosis.



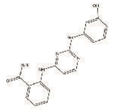
Size:10 mg,50 mg,200 mg,500 mg
Soluble in DMSO



AS602801 induces cytotoxicity in serum-cultured human cancer cells.

A3353 DB07268

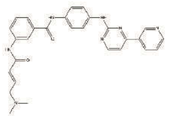
DB07268 is a JNK1 inhibitor with IC50 value of 9 nM.



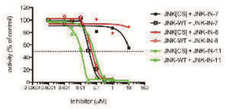
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

A3519 JNK-IN-7

JNK-IN-7 is a selective JNK inhibitor with IC50 values of 1.54 nM, 1.99 nM, 0.75 nM to JNK1, JNK2, JNK3, respectively.



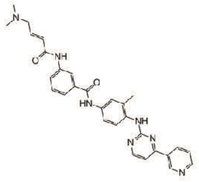
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO



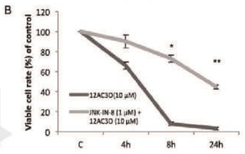
Evaluation of the functional selectivity with mutagenesis.

A3520 JNK-IN-8

JNK-IN-8 is a specific JNK1/2/3 inhibitor with IC50 value of 4.67, 18.7, 0.98 nM respectively.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



Growth-related signaling pathways in 12AC3O-treated K562 cells.

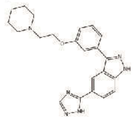
A4604 SP 600125

SP 600125 is a selective, reversible and ATP-competitive inhibitor of Jun N-terminal kinase (JNK) with IC50 values of 40, 40 and 90 nM for JNK1, 2 and 3, respectively.

Size:10 mg,50 mg,100mg
Soluble in DMSO > 10 mM

B1260 CC-401

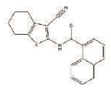
CC-401 is a specific inhibitor of JNK with Ki values of 25-50 nM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO

B3275 TCS JNK 5a

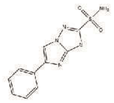
TCS JNK 5a is a selective inhibitor of JNK2 and JNK3 with pIC50 values of 6.7 and 7.5, respectively.



Size:10 mg,25 mg
Soluble in DMSO > 10 mM

B9010 AEG 3482

AEG 3482 is a small-molecule inhibitor of Jun kinase (JNK)-dependent apoptosis.



Size:10 mg
Soluble in DMSO > 10 mM

MEK1/2 Inhibitors

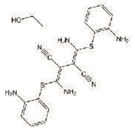
Potency Comparison

Activators	Pan-MEK	MEK1/2	MEK1	MEK2	MEK5
AZD6244 (Selumetinib)			*** (IC_{50}:14 nM)		
AZD8330		**** (IC_{50}:7 nM)			
BIX 02188					**** (IC_{50}:4.3 nM)
BIX 02189					**** (IC_{50}:1.5 nM)
GDC-0623			***** (Ki:0.13 nM)		
MEK162 (ARRY-162, ARRY-438162)		*** (IC_{50}:12 nM)			
PD0325901		***** (IC_{50}:0.33 nM)			
PD184352 (CI-1040)	** (Ki:300 nM)				
PD318088		*			
PD98059			* (IC_{50}:10 μM)		
Pimasertib (AS-703026)		**** (IC_{50}:5 nM-2 μM)			
TAK-733			**** (IC_{50}:3.2 nM)		
Trametinib (GSK1120212)			***** (IC_{50}:0.92 nM)	**** (IC_{50}:1.8 nM)	
Trametinib DMSO solvate			***** (IC_{50}:0.7 nM)	***** (IC_{50}:0.9 nM)	
U0126-EtOH			*** (IC_{50}:0.07 μM)	*** (IC_{50}:0.06 μM)	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1337 U0126-EtOH

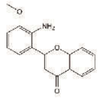
U0126-EtOH is a selective inhibitor of MEK1 and MEK2 with IC50 values of 70 nM and 60 nM, resepctively.



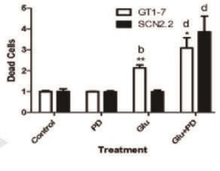
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A1663 PD98059

PD98059 is a selective and reversible inhibitor of MAPK-activating enzyme with IC50 values of both about 10 μM for basal MEK (GST-MEK1) and a partially activated MEK produced by mutation of serine to glutamate at 218 and 222 residues (GST-MEK-2E).



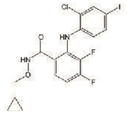
Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



PD98059 induces NMDAR-mediated cell death in SCN2.2 cells.

A1792 PD184352 (CI-1040)

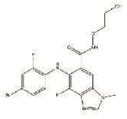
PD184352 (CI-1040) is a selective inhibitor of MEK with Ki value of 300 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

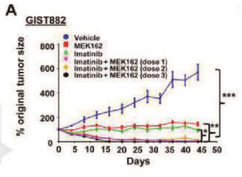
A1947 MEK162 (ARRY-162, ARRY-438162)

MEK162 (ARRY-162, ARRY-438162) is a novel, selective inhibitor of MEK 1/2 with IC50 of about 12 nM .



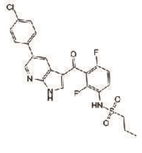
Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

Inhibition of the MAPK and KIT signaling suppress tumour growth.



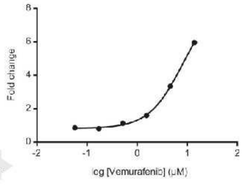
A3004 Vemurafenib (PLX4032, RG7204)

Vemurafenib (PLX4032, RG7204) is a novel and potent inhibitor of B-RafV600E with IC50 of 31 nM.



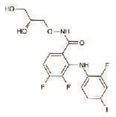
Size:10 mg,50 mg,200mg,500 mg
Soluble in DMSO > 10 mM

Vemurafenib activates PXR in vitro.



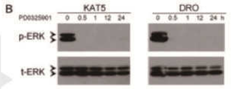
A3013 PD0325901

PD0325901 is a specific inhibitor of mitogen-activated protein kinase MEK.



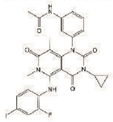
Size:5 mg,25 mg,100 mg,500 mg
Soluble in DMSO > 10 mM

PD0325901 inhibits MAPK pathway signaling in thyroid tumor cells.



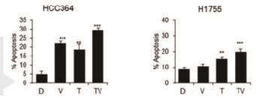
A3018 Trametinib (GSK1120212)

Trametinib (GSK1120212) is a highly specific and potent inhibitor of MEK1/2 with IC50 of 0.92 nM/1.8 nM.



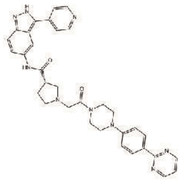
Size:50 mg,200 mg,500 mg
Soluble in DMSO > 10 mM

Anti-apoptotic effect of trametinib in BRAF mutated NSCLC cells.



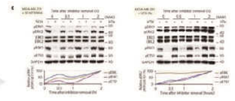
A3805 SCH772984

SCH772984 is a novel, specific inhibitor of ERK1/2 with IC50 values of 4 nM and 1 nM, respectively.



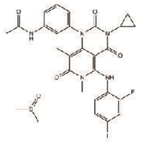
Size:5 mg,10 mg,25 mg,50 mg
Limited solubility

Slow kinetics of SCH772984 both in vitro and in cell based systems.



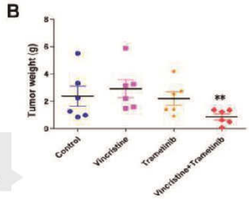
A3887 Trametinib DMSO solvate

Trametinib is a novel and potent allosteric inhibitor of MEK kinase.



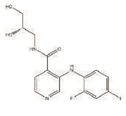
Size:10 mg,50 mg,100 mg
Soluble in DMSO

Trametinib inhibits the growth of KBV200 xenografts in nude mice.



A5573 Pimasertib (AS-703026)

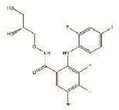
Pimasertib (AS-703026) is a highly selective, potent, ATP non-competitive allosteric inhibitor of MEK1/2 with IC50 values of 5 nM-2 μM in human multiple myeloma (MM) cell lines.



Size:5 mg,10mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A5707 PD318088

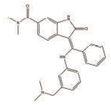
PD318088 is a non-ATP competitive allosteric MEK1/2 inhibitor.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A5801 BIX 02189

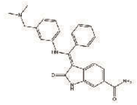
BIX 02189 is a selective inhibitor of MEK5 with IC50 value of 1.5 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A5803 BIX 02188

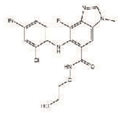
BIX 02188 is a selective inhibitor of MEK5 with IC50 value of 4.3 nM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

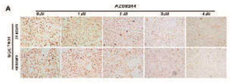
A8207 AZD6244 (Selumetinib)

AZD6244 (Selumetinib) is a highly potent and selective inhibitor of MEK1/2 with IC50 value of 14.1nM against MEK1.



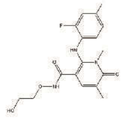
Size:100 mg,500 mg
Soluble in DMSO > 10 mM

AZD6244 inhibits proliferation of gastric cancer cells.



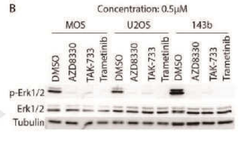
A8374 AZD8330

AZD8330 is an orally active and selective MEK1/2 inhibitor with an IC50 of 7 nM.



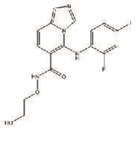
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

Inhibition effect of AZD8330 on MEK.



B1135 GDC-0623

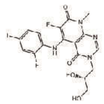
GDC-0623 is a potent and ATP-uncompetitive inhibitor of MEK1 with Ki value of 0.13 nM.



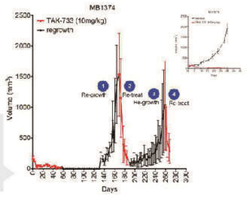
Size:5 mg,25 mg,100 mg
Soluble in DMSO

B1621 TAK-733

TAK-733 is a potent, ATP-noncompetitive and selective inhibitor of MEK allosteric site with the IC50 value of 3.2 nM.



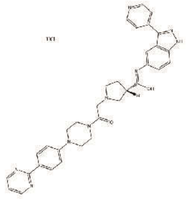
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



Tumor regrowth kinetics for PDTX model MB1374 treated with TAK-733.

B5866 SCH772984 HCl

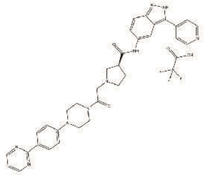
SCH772984 is a novel, specific inhibitor of ERK1/2 with IC50 values of 4 nM and 1 nM, respectively.



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO

B5867 SCH772984 TFA

SCH772984 is a novel, specific inhibitor of ERK1/2 with IC50 values of 4 nM and 1 nM, respectively.



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO

p38 Inhibitors

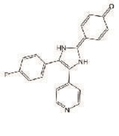
Potency Comparison

Inhibitors	Pan-p38 MAPK	p38α MAPK	p38β MAPK	p38γ MAPK	p38γ MAPK
BIRB 796 (Doramapimod)		***** (Kd:0.1 nM)			
LY2228820		**** (IC_{50}:5.3 nM)	**** (IC_{50}:3.2 nM)		
PD 169316	*				
PH-797804		*** (IC_{50}:26 nM)			
SB 203580		** (IC_{50}:0.3–0.5 μM)			
SB 239063		*** (IC_{50}:44 nM)			
SB202190 (FHPI)		*** (IC_{50}:50 nM)	*** (IC_{50}:100 nM)		
Skepinone-L		**** (IC_{50}:5 nM)			
SX 011		**** (IC_{50}:9 nM)	*** (IC_{50}:90 nM)		
SB 706504		**** (IC_{50}:2.5 nM)			
SB 203580 hydrochloride		** (IC_{50}:0.6 μM)			
TAK-715		**** (IC_{50}:7.1 nM)	** (IC_{50}:0.20 μM)		
VX-702		**** (IC_{50}:4-20 nM)			
VX-745		**** (IC_{50}:10 nM)	** (IC_{50}:220 nM)		

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1632 SB202190 (FHPI)

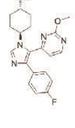
SB202190 (FHPI) is a potent p38 MAPK inhibitor that specifically inhibits p38α and p38β with IC50 values of 50 and 100 nM, respectively.



Size:100 mg
Soluble in DMSO > 10 mM

A3792 SB 239063

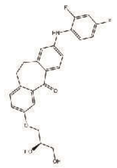
SB 239063 is a potent and selective p38 MAP kinase inhibitor (IC50: 44 nM for p38α).



Size:5 mg,25 mg
Limited solubility

A3824 Skepinone-L

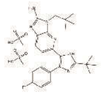
Skepinone-L is a selective inhibitor of p38 MAPK with IC50 value of 5 nM.



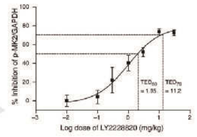
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM
Product Citation:
PLoS One (2015). PMID: 26263390

A5566 LY2228820

LY2228820 is a novel and potent inhibitor of p38 MAPK with IC50 of 7 nM.



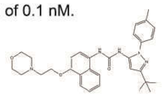
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



Treatment of LY2228820 inhibits phosphorylation of MAPKAP-K2.

A5639 BIRB 796 (Doramapimod)

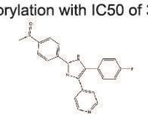
BIRB 796 (Doramapimod) is a highly selective p38α inhibitor of MAPK with Kd of 0.1 nM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

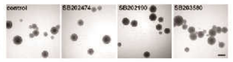
A8254 SB 203580

SB 203580 is a p38 inhibitor of MAPK with IC50 of 0.3-0.5 μM, 10-fold less sensitive to SAPK3 (106T) and SAPK4 (106T) and blocks PKB phosphorylation with IC50 of 3-5 μM.



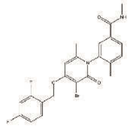
Size:25 mg,50 mg,100 mg,250 mg
Soluble in DMSO > 10 mM

SB 203580 increases the number and size of neurospheres in vitro.



A8308 PH-797804

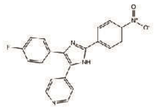
PH-797804 is a novel pyridinone inhibitor of p38α with IC50 of 26 nM; 4-fold more selective versus p38β.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM
Product Citation:
Breast Cancer Res Treat (2015). PMID: 25701119

A8689 PD 169316

PD 169316 is a potent, selective and cell-permeable suppressor of p38 MAP kinase with IC50 value of 89 nM.



Size:10 mg,50 mg
Soluble in DMSO

Raf Inhibitors

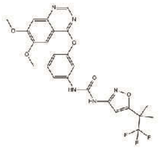
Potency Comparison

Inhibitors	Pan-Raf	Raf-1	B-Raf	B-RafV600E	C-Raf	C-Raf
AZ 628			* (IC_{50}:105 nM)	*** (IC_{50}:34 nM)	*** (IC_{50}:29 nM)	
CEP-32496			*** (Kd:36 nM)	*** (Kd:14 nM)	** (Kd:39 nM)	
Dabrafenib (GSK2118436)			**** (IC_{50}:3.2 nM)	***** (IC_{50}:0.8 nM)	**** (IC_{50}:5.0 nM)	
Dabrafenib Mesylate (GSK-2118436)			**** (IC_{50}:3.2 nM)	***** (IC_{50}:0.8 nM)	**** (IC_{50}:5.0 nM)	
GDC-0879				***** (IC_{50}:0.13 nM)		
GW5074					**** (IC_{50}:9 nM)	
LY3009120			**** (IC_{50}:9.1 nM)	*** (IC_{50}:17 nM)	*** (IC_{50}:42 nM)	
PLX-4720				*** (IC_{50}:13 nM)		**** (IC_{50}:6.7 nM)
SB590885			***** (Ki: 0.16 nM)			
TAK-632			**** (IC_{50}:8.3 nM)	**** (IC_{50}:2.4 nM)	**** (IC_{50}:1.4 nM)	
ZM336372					*** (IC_{50}:70 nM)	
RAF265	**** (IC_{50}:3-60 nM)					
MLN 2480	*					
Sorafenib Tosylate		**** (IC_{50}:6 nM)	*** (IC_{50}:22 nM)			
Sorafenib		**** (IC_{50}:6 nM)	*** (IC_{50}:22 nM)			
Vemurafenib (PLX4032, RG7204)				*** (IC_{50}:31 nM)		

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1413 CEP-32496

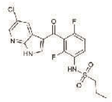
CEP-32496 is a highly potent and orally efficacious V600E mutant BRAF, WT BRAF and c-Raf inhibitor with Kd values of 14 nM, 36 nM and 39 nM, respectively.



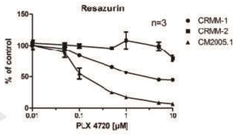
Size:5 mg,25 mg,100 mg
Limited solubility

A3016 PLX-4720

PLX-4720 is a potent inhibitor of B-RafV600E with the value of 50% inhibition concentration IC50 of 13 nM.



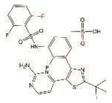
Size:10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



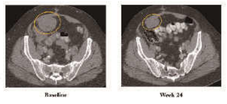
PLX 4720 decreases the viability of CRMM-1 and CM2005.1.

A3347 Dabrafenib Mesylate (GSK-2118436)

Dabrafenib Mesylate is a selective BRAF V600E inhibitor,It is highly selective against B-Raf V600E with IC50 of 0.8 nM, compared to wild type B-Raf and c-Raf with IC50s of 3.2 nM and 5.0 nM, respectively.



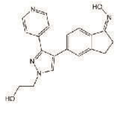
Size:5 mg,10mg,50 mg,100 mg
Soluble in DMSO



Tumor regression of 20% observed in abdominal and pelvic tumors.

A5071 GDC-0879

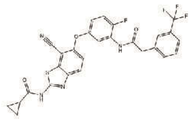
GDC-0879 is synthsized as a potent and selective B-Raf inhibitor against purified B-Raf V600E enzyme and cellular pERK with IC50 of 0.13 nM and 63 nM,respectively.



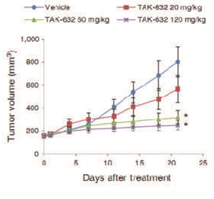
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A8226 TAK-632

TAK-632 is a selective inhibitor of BRAF, CRAF and BRAF-V600E kinase with IC50 value of 8.3 nM, 1.4 nM and 2.4 nM.



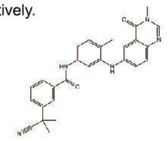
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



Effect of TAK-632 on xenograft proliferation.

A8371 AZ 628

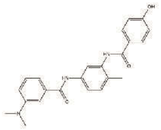
AZ 628 is a potent and newly discorvered inhibitor of BRAF, c-Raf-1 and BRAFV600E with IC50 values of 105 nM, 29 nM and 34 nM, respectively.



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A8545 ZM336372

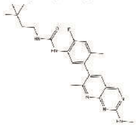
ZM336372 is a potent inhibitor of C-Raf with IC50 value of 70 nM and inhibits SAPK2b/p38β2 with IC50 value of 2 μM.



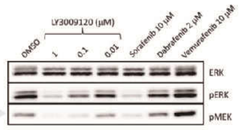
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A8716 LY3009120

LY3009120, a pan-RAF and RAF dimer inhibitor, inhibits BRAF WT, CRAF, WT, BRAFV600E, and BRAFV600E+G468A with the IC50 values of 9.1, 15, 5.8, and 17 nM, respectively.



Size:5 mg,25 mg,100 mg
Soluble in DMSO



LY3009120 induces RAF dimerization.

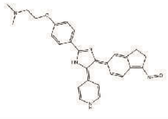
B1405 GW5074

GW5074 is a synthetic inhibitor of c-Raf with IC50 value of 9 nM.

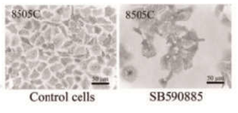
Size:5 mg,50 mg,250 mg
Soluble in DMSO > 10 mM

B1406 SB590885

SB590885 is a potent and selective inhibitor of B-Raf kinase with Ki value of 0.16 nM.



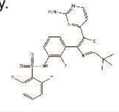
Size:10 mg,50 mg,100 mg,250 mg
Limited solubility



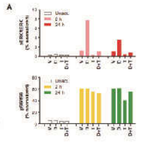
Cell morphology evaluation in 8505C cells treated with SB590885.

B1407 Dabrafenib (GSK2118436)

Dabrafenib is a specific inhibitor of BRAF V600 mutants with IC50 values of 0.5nM, 0.6nM and 1.9nM against V600E, V600K and V600D, respectively.

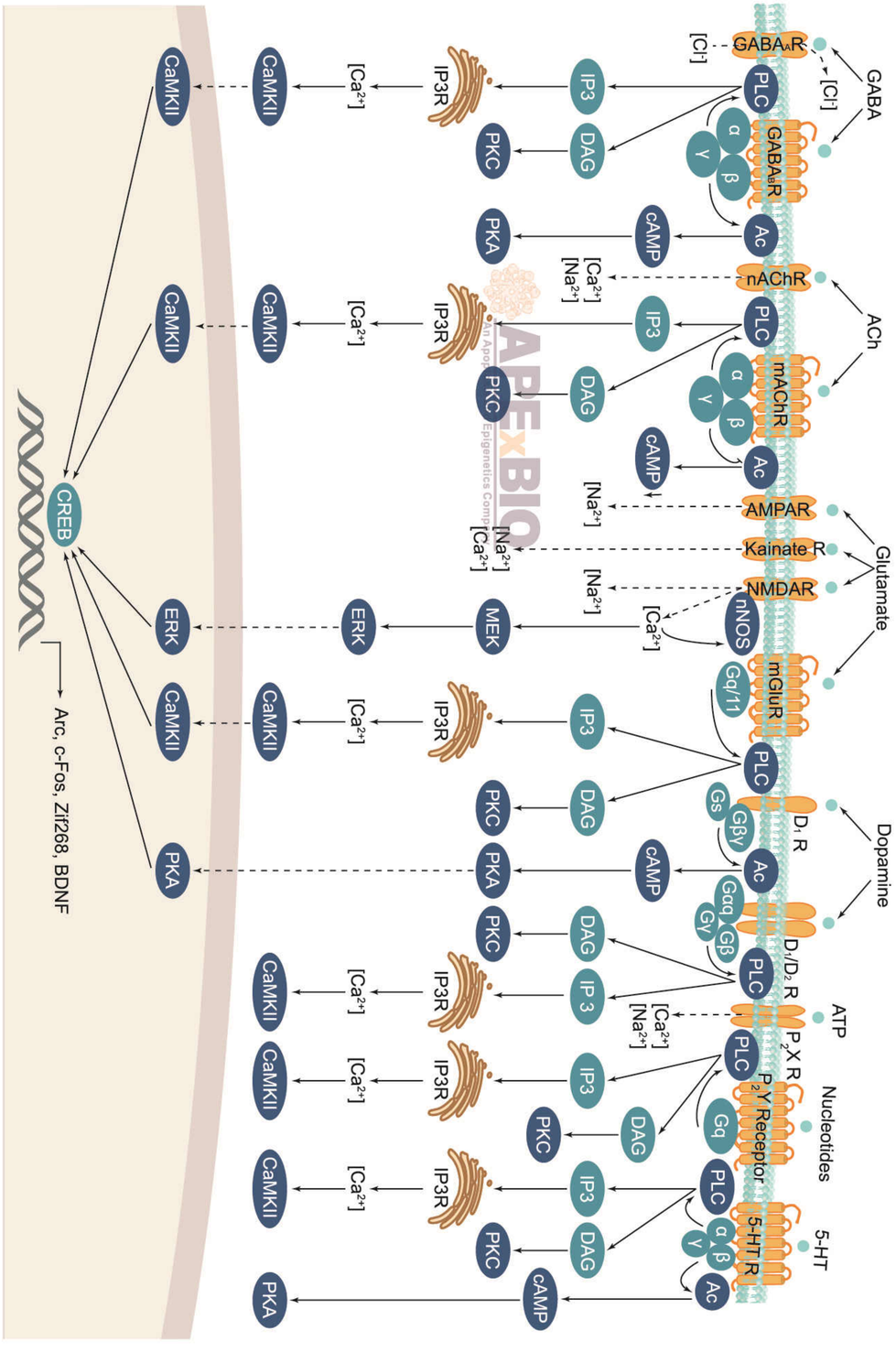


Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



Dabrafenib changed pERK and expression levels of a subset of genes.

Neuroscience



5-HT Receptor Inhibitors

See page 83 for the relevant product information.

AChR Inhibitors/Activators

Potency Comparison

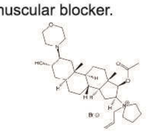
Inhibitors	AChR	mAChR	mAChR(M1)	mAChR(M2)	mAChR(M3)	mAChR(M4)	mAChR(M5)	AChE
Acetylcysteine	*							
Atropine			**** (IC_{50}:2.22 ± 0.60 nM)	**** (IC_{50}:4.32 ± 1.63 nM)	**** (IC_{50}:4.16 ± 1.04 nM)	**** (IC_{50}:2.38 ± 1.07 nM)	**** (IC_{50}:3.39 ± 1.16 nM)	
Diphemanil Methylsulfate					*			
Galanthamine HBr		** (IC_{50}:410 nM)						
Ipratropium Bromide		***** (IC_{50}:0.6 nM)						
Methscopo-lamine		*						
Neostigmine Bromide								***** (IC_{50}:0.04 nM)
Oxybutynin		**** (IC_{50}:5.4 nM)						
Pancuronium dibromide	*** (IC_{50}:5.5 nM)							
Rivastigmine Tartrate								* (IC_{50}:5.5 μM)
Rocuronium Bromide	*** (IC_{50}:22.5-33.5 nM)							
Tiotropium Bromide			***** (IC_{50}:0.17 nM)	***** (IC_{50}:0.17 nM)	***** (IC_{50}:0.17 nM)			
Trospium chloride		*						
Vecuronium Bromide	**** (IC_{50}:1-2 nM)							

Activator	AChR	mAChR	mAChR(M1)	mAChR(M2)	mAChR(M3)	mAChR(M4)	ATmAChR(M5)R	AChE
Succinylcholine Chloride Dihydrate	*							

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1366 Rocuronium Bromide

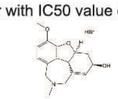
Rocuronium Bromide is an aminosteroid non-depolarizing neuromuscular blocker.



Size:25 mg,100 mg
Soluble in DMSO > 10 mM

A1745 Galanthamine HBr

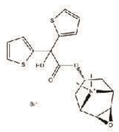
Galanthamine HBr is a long-acting, centrally active acetylcholinesterase inhibitor with IC50 value of 410 nM.



Size:100 mg
Limited solubility

A3874 Tiotropium Bromide

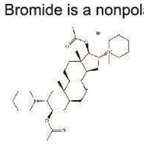
Tiotropium Bromide is a muscarinic acetylcholine receptor (mAChR M) antagonist that blocks the binding of the acetylcholine ligand and subsequent opening of the ligand-gated ion channel.



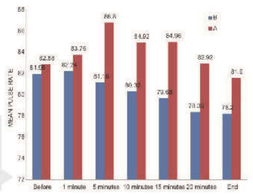
Size:100 mg
Soluble in DMSO

A5220 Vecuronium Bromide

Vecuronium Bromide is a nonpolarizing neuromuscular relaxant.



Size:25mg,100 mg
Soluble in DMSO > 10 mM



Comparison of mean pulse rate between Rocuronium and Vecuronium.

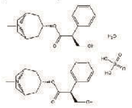
A8356 Acetylcysteine

Acetylcysteine is a derivative of cysteine, and is used as antioxidant and mucolytic agent.

Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8369 Atropine

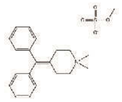
Atropine is a competitive antagonist of muscarinic acetylcholine receptor with IC50 values of 2.22±0.60 nM, 4.32±1.63 nM, 4.16±1.04 nM, 2.38±1.07 nM and 3.39±1.16 nM for M1, M2, M3, M4 and M5, respectively.



Size:10 mg,200 mg
Soluble in DMSO > 10 mM

A8414 Diphemanil Methylsulfate

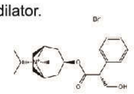
Diphemanil Methylsulfate is a quaternary ammonium anticholinergic.



Size:5 mg,10 mg
Soluble in DMSO > 10 mM

A8451 Ipratropium Bromide

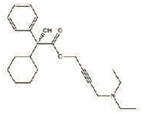
Ipratropium bromide is a mAChR M (muscarinic) antagonist, bronchodilator.



Size:50mg
Soluble in DMSO > 10 mM

A8495 Oxybutynin

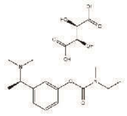
Oxybutynin is an anticholinergic medication used to relieve urinary and bladder difficulties.



Size:100mg
Soluble in DMSO > 10 mM

A8515 Rivastigmine Tartrate

Rivastigmine is a parasympathomimetic or cholinergic agent for the treatment of mild to moderate dementia of the Alzheimer's type and dementia due to Parkinson's disease.



Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

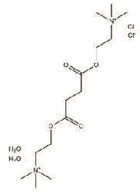
B1594 Neostigmine Bromide

Neostigmine bromide is a reversible inhibitor of acetylcholinesterase (AChE).

Size:100mg,500mg
Limited solubility

B1595 Succinylcholine Chloride Dihydrate

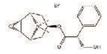
Succinylcholine Chloride Dihydrate is a nicotinic AChR agonist and also acts as a depolarizing neuromuscular blocker.



Size:50mg
Limited solubility

B1611 Methscopolamine

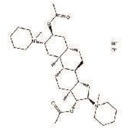
Methscopolamine (Pamine) is a muscarinic acetylcholine receptor blocker,which is used as an oral medication to treat peptic ulcers by reducing stomach acid secretion.



Size:50 mg,200 mg
Soluble in DMSO > 10 mM

B1612 Pancuronium Dibromide

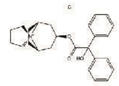
Pancuronium dibromide is a competitive AChR antagonist (IC50 : 5.5 nM) and acts as a skeletal muscle relaxant.



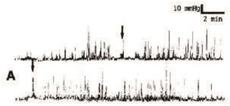
Size:25 mg,50 mg
Soluble in DMSO > 10 mM

B1616 Trospium Chloride

Trospium chloride is an antimuscarinic agent indicated for the treatment of overactive bladder with symptoms of urge urinary incontinence, urgency, and urinary frequency.



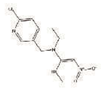
Size:25 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



Effect of trospium chloride on postprandial jejunal motility.

B4873 Nitenpyram

Nitenpyram is a nicotinic acetylcholine receptor (AchR) agonist.



Size:100 mg,500 mg
Soluble in DMSO > 10 mM

Amyloid β Inhibitors

Potency Comparison

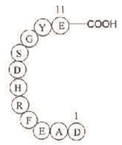
Inhibitors	Aβ	Aβ42	Aβ40	Aβ38
DAPT (GSI-IX)	*** (IC_{50}:20 nM)			
EHT 1864	*			
Semagacestat (LY450139)		*** (IC_{50}:10.9 nM)	*** (IC_{50}:12.1 nM)	*** (IC_{50}:12.0 nM)
EUK 134	*			
Frentizole	*			
Gamma-secretase Modulators	*			
J 147		*	*	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

Neuroscience

A1002 Beta-Amyloid (1-11)

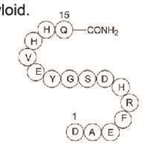
Beta-amyloid (1-11) (Abeta or Aβ) (C56H76N16O22) is a peptide with the sequence H-{Asp}{Ala}{Glu}{Phe}{Arg}{His}{Asp}{Ser}{Gly}{Tyr}{Glu}-OH,which is processed from the Amyloid precursor protein.



Size:1 mg,5 mg,10 mg,25 mg

A1003 Amyloid β-Protein (1-15)

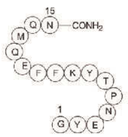
Beta-amyloid protein (A beta), a 39-43 amino acid peptide composed of a portion of the transmembrane domain and the extracellular domain of the amyloid precursor protein (APP), is also the principal component of amyloid.



Size:1 mg,5 mg,10 mg,25 mg

A1004 Amyloid Precursor C-Terminal Peptide

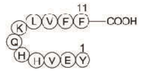
Amyloid Precursor C-Terminal Peptide (APP)is commonly used for beta amyloid generation.



Size:1 mg,5 mg,10 mg,25 mg

A1038 Amyloid β-Peptide (10-20) (human)

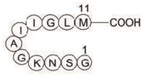
The amyloid β-peptide (Aβ) has a central role in initiating neurodegeneration in Alzheimer disease (AD).



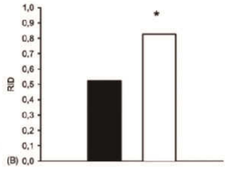
Size:1 mg,5 mg,10 mg,25 mg
Soluble to 1 mg/ml in sterile water

A1039 Amyloid Beta-peptide (25-35) (human)

Aβ (25-35) is regarded to be the functional domain of Aβ, responsible for its neurotoxic properties.



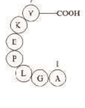
Size:1 mg,5 mg,10 mg,25 mg
Soluble to 0.50 mg/ml in sterile water



Effect of Aβ(25-35) on rat behavior in the social recognition task.

A1053 Amyloid A protein fragment

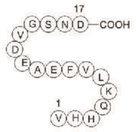
Amyloid A proteins, also called serum amyloid A (SSA) proteins, are a family of apolipoproteins associated with high-density lipoprotein (HDL) in plasma.



Size:1 mg,5 mg,10 mg,25 mg

A1123 Amyloid Beta-Peptide (12-28) (human)

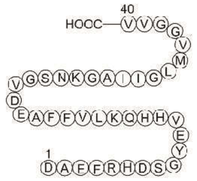
Amyloid beta (Aβ or Abeta) is a peptide of 36–43 amino acids that is processed from the Amyloid precursor protein, associated with Alzheimer's disease.



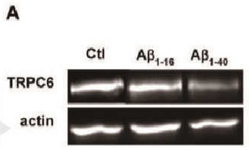
Size:1 mg,5 mg,10 mg,25 mg
Soluble to 0.70 mg/ml in sterile water

A1124 Amyloid Beta-Peptide (1-40) (human)

Aβ40 is a peptide processed from the amyloid precursor protein (APP).



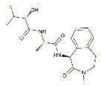
Size:1 mg,5 mg,10 mg,25 mg
Soluble to 1 mg/ml in sterile water



The amyloid-beta peptide Aβ1–40 mimics the effect of ouabain.

A8190 Semagacestat (LY450139)

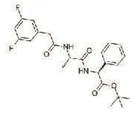
Semagacestat (LY450139) is an blocker of γ-secretase for Aβ42, Aβ40 and Aβ38 with IC50 of 10.9 nM, 12.1 nM and 12.0 nM, also inhibits Notch signaling with IC50 of 14.1 nM.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

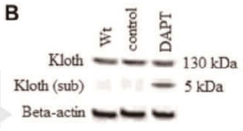
A8200 DAPT (GSI-IX)

DAPT (GSI-IX) is a novel inhibitor of γ-secretase with IC50 of 20 nM in HEK 293 cells.



Size:10 mg,50 mg,500 mg
Soluble in DMSO > 10 mM

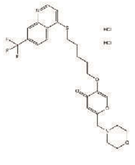
Product Citation:
Neurobiol Aging. (2015)
PMID: 25595496



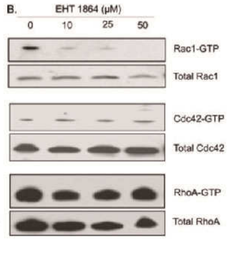
γ-secretase inhibitor DAPT could cleave Klotho stub.

B5487 EHT 1864

EHT 1864 is a small-molecule inhibitor of Rac family small GTPases with Kd value of 40nM for Rac1.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM



B, EHT 1864 selectively reduces detection of Rac1-GTP.

COX Inhibitors

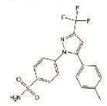
Potency Comparison

Inhibitors	COX	COX-1	COX-2
ATB-346			*
Celecoxib			*** (IC50:40 nM)
Ibuprofen		* (IC_{50}:12 μM)	* (IC50:80 μM)
Ibuprofen Lysine	* (IC_{50}:0.33 mM)		
Indomethacin		* (IC_{50}:230 nM)	** (IC_{50}:630 nM)
Meclofenamate Sodium		*** (IC_{50}:40 nM)	*** (IC_{50}:50 nM)
Meloxicam (Mobic)	*		
Piroxicam	* (IC_{50}:6 mM)		
Flurbiprofen		*** (IC_{50}:40 nM)	** (IC_{50}:510 nM)
SC 560		**** (IC_{50}:9 nM)	* (IC_{50}:6.3 μM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1664 Celecoxib

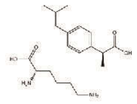
Celecoxib is a highly selective inhibitor of cyclooxygenase-2 (COX-2) with IC50 value of 40 nM.



Size:100 mg
Soluble in DMSO > 10 mM

A5791 Ibuprofen Lysine

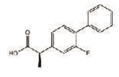
Ibuprofen Lysine (NeoProfen) is a non-selective COX inhibitor with an IC50 of 0.33 mM.



Size:20 mg,100mg
Limited solubility

A8434 Flurbiprofen

Flurbiprofen is a nonsteroidal anti-inflammatory drug (NSAID) used to relieve symptoms of arthritis (osteoarthritis and rheumatoid arthritis).



Size:100 mg
Soluble in DMSO > 10 mM

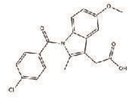
A8446 Ibuprofen

Ibuprofen is an inhibitor of cyclooxygenase 1 and cyclooxygenase 2 with IC50 values of 12 and 80 μM, respectively.

Size:1 g,5 g
Soluble in DMSO > 10 mM

A8449 Indomethacin

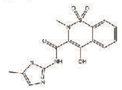
Indomethacin, an anti-inflammatory agent, inhibits Cox-1 and Cox-2 (cyclooxygenases) with selectivity for Cox-1 (IC50 of 230 nM) over Cox-2 (IC50 of 630 nM).



Size:1 g,5 g
Soluble in DMSO > 10 mM

A8466 Meloxicam (Mobic)

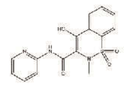
Meloxicam is a nonsteroidal anti-inflammatory drug (NSAID) used to relieve the symptoms of arthritis.



Size:100 mg
Soluble in DMSO > 10 mM

A8503 Piroxicam

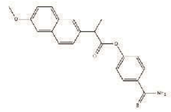
Piroxicam is an effective and potent inhibitor of prostaglandin synthesis and a Cox-1 and Cox-2 inhibitor.



Size:1 g,5 g
Soluble in DMSO > 10 mM

B3584 ATB-346

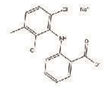
ATB-346 is a hydrogen sulphide-releasing anti-inflammatory drug.



Size:1 mg
Soluble in DMSO

B4786 Meclofenamate Sodium

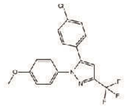
Meclofenamate Sodium is a dual COX-1/COX-2 inhibitor with IC50 of 40 nM and 50 nM, respectively.



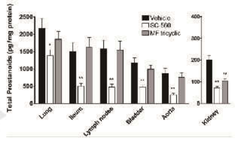
Size:50 mg,200 mg
Soluble in DMSO > 10 mM

B6786 SC 560

SC 560 is a COX-1-selective inhibitor with IC50 value of 0.009 μM.



Size:5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM

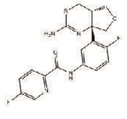


Effect of SC-560 on total prostanoid content of rat tissues.

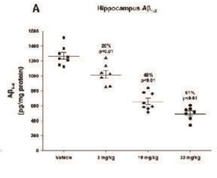
BACE Inhibitor

A8465 LY2886721

LY2886721 is an oral and furothiazine-based inhibitor of β site-amyloid protein cleaving enzyme (BACE) with IC50 of 20.3 nM.



Size:5 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



Pharmacologic effects in vivo of oral administration of LY2886721.

Neuroscience

Neuroscience

Dopamine Receptor Inhibitors/Activators

Potency Comparison

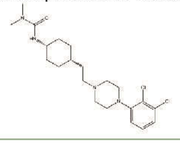
Inhibitors	Dopamine Receptor	D1-like Receptor	D2-like Receptor	D1	D2	D3	D4	D5
Chlorpromazine HCl	*							
Chlorprothixene				*** (Ki:18 nM)	**** (Ki:2.96 nM)	**** (Ki:4.56 nM)		**** (Ki:9 nM)
Clozapine				** (Ki:170 nM)	** (Ki:230 nM)	** (Ki:170 nM)	*** (Ki:21 nM)	** (Ki:330 nM)
Haloperidol	*							
2-CMDO			*		**** (Ki:2.5 nM)		***** (Ki:0.54 nM)	
AMI-193					**** (Ki:3 nM)			
Chlorprothixene				*** (Ki:18 nM)	**** (Ki:2.96 nM)	**** (Ki:4.56 nM)		**** (Ki:9 nM)
LE 300				***** (Ki:0.08-1.9 nM)	**** (Ki:6-45 nM)			
Levosulpiride					*			
Nemonapride			***** (Ki:0.1 nM)					
Cabergoline			*		***** (Ki:0.7 nM)	**** (Ki:1.5 nM)	**** (Ki:9.0 nM)	
Paliperidone					*			
PNU 96415E							**** (Ki:3.0 nM)	
Quetiapine Fumarate	*							

Activators	Dopamine Receptor	D1-like Receptor	D2-like Receptor	D2	D3	D4	D5
Aripiprazole				*			
Cariprazine				***** (Ki:0.5 nM)	**** (Ki:0.09 nM)		
Dopamine HCl	*						
Fenoldopam		*** (EC_{50}:57 nM)					
Levodopa	*						
Pergolide mesylate	*						
Pramipexole dihydrochloride				**** D2L, D2S(Ki:3.9/3.3 nM)	***** (Ki:0.5 nM)	**** (Ki:3.9 nM)	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3282 Cariprazine

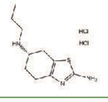
Cariprazine is a novel antipsychotic drug candidate for dopamine D3 and D2 receptors with Ki values of 0.5 nM and 0.09 nM, respectively.



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO

A3733 Pramipexole dihydrochloride

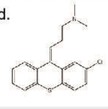
Pramipexole dihydrochloride is a dopamine receptor agonist with selectivity for the D3 receptor (Ki values are 3.9, 3.3, 0.5 and 3.9 nM for D2L, D2S, D3 and D4 receptors respectively).



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8398 Chlorprothixene

Chlorprothixene (Cloxan, Taractan, Truxal) is a typical antipsychotic drug of the thioxanthene class and was the first of the series to be synthesized.



Size:50 mg
Soluble in DMSO > 10 mM

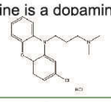
A8460 Levodopa

Levodopa is a immediate precursor of dopamine which produced by tyrosine hydroxylase. It shows antiparkinson activity.

Size:50 mg
Limited solubility

B1480 Chlorpromazine HCl

Chlorpromazine is a dopamine antagonist.



Size:50 mg
Soluble in DMSO > 10 mM

B1482 Dopamine HCl

Dopamine HCl is a catecholamine neurotransmitter present in a wide variety of animals,and a dopamine D1-5 receptors agonist.

Size:50 mg
Soluble in DMSO > 10 mM

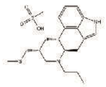
B1483 Fenoldopam

Fenoldopam is a selective D1-like dopamine receptor partial agonist (EC50:57 nM) and a α2-adrenoceptor antagonist in vitro (Ki:15-25 nM).

Size:10 mg,50 mg
Soluble to 10 mM in sterile water

B1485 Pergolide mesylate

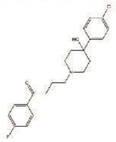
Pergolide mesylate is an antiparkinsonian agent which functions as a dopaminergic agonist.



Size:2.5 mg
Soluble in DMSO > 10 mM

B2099 Haloperidol

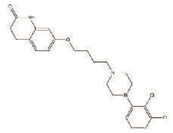
Haloperidol is an antipsychotic drug that has similar actions to the antipsychotic medicine phenothiazine.



Size:5 g,10 g
Soluble in DMSO > 10 mM

B2232 Aripiprazole

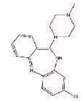
Aripiprazole is a novel and atypical antipsychotic.



Size:1 g,5 g
Soluble in DMSO > 10 mM

B2235 Clozapine

Clozapine is an atypical antipsychotic medication with Ki values of 80, 230, 89, 141 and 250 nM for D2, D3, D4, D1 and D5 receptor, respectively.



Size:1 g
Soluble in DMSO > 10 mM

GABA Receptor Inhibitors/Activators

Potency Comparison

Inhibitors	GABA Receptor	$GABA_A$ Receptor	$GABA_B$ Receptor	$GABA_C$ Receptor
Retigabine dihydrochloride	*			
Etomidate		*		
ZK 93426 hydrochloride	*			
Ro 19-4603		***** (Ki:0.2-2.6 nM)		
L-655,708		***** (Ki:0.45 nM)		
TB 21007		**** α5, α2, α1 and α3 sμbtypes(Ki: 1.6, 16, 20 and 20 nM)		
SCS		**** α2β1γ1θ, α2β1γ1 and α2β1γ2s (IC_{50}:4.5, 5.3 and 7.9 nM)		
MRK 016		**** α5-sμbtype (EC_{50}:3 nM)		
β-CCB		*		
Ro 15-4513	*			
TPMPA				* (Kb:2.1 μM)
CGP 55845 hydrochloride			**** (IC_{50}:5 nM)	

Activators	GABA Receptor	GABAA Receptor	GABAB Receptor	GABAC Receptor
Gabapentin	*			
Nefiracetam	*			
Org 20599		* (EC_{50}:1.1 μM)		
MK 0343		***** α3, α1, α5 and α2 (Ki:0.21, 0.22, 0.23 and 0.40 nM)		
L-838,417		***** α1, α2, α3 and α5 (Ki:0.79, 0.67, 0.67 and 2.25 nM)		

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

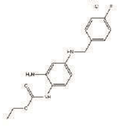
A1958 Etomidate

General anesthetic with GABA modulatory and GABA-mimetic actions; selectively interacts with β2- and β3-subunit containing GABAA receptors.

Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A3758 Retigabine dihydrochloride

Retigabine is a first-in-class K+ channel (KCNQ) opener.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

A8436 Gabapentin

Gabapentin is structurally similar to GABA and is reported in various research studies to increase GABA concentrations within the brain.

Size:20mg,100mg
Limited solubility

Gap Junction Inhibitors/Activators

Potency Comparison

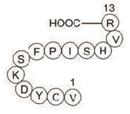
Inhibitors	Gap Junction	Panx-1
10Panx		*
Carbenoxolone disodium	*	
Gap 26	*	
Gap 27	*	
Scrambled 10Panx		*

Activators	Gap Junction	Panx-1
GAP-134	*	
GAP-134 hydrochloride	*	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

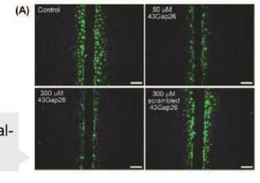
A1044 Gap 26

Gap26 is a connexin mimetic peptide, corresponding to residues 63-75 of connexin 43, which is a gap junction blocker.



Size:5 mg,10 mg,25 mg
Soluble to 2 mg/ml in sterile water

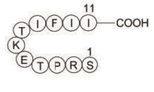
Product Citation:
Biochem Biophys Res Commun. (2015) PMID: 25684187



Effect of Gap 26 on gap junctional-coupling.

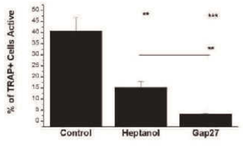
A1045 Gap 27

Gap 27 is a peptide derived from connexin 43 that is a selective gap junction blocker.



Size:5 mg,10 mg,25 mg
Soluble to 1 mg/ml in sterile water

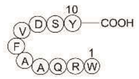
Product Citation:
Acta Physiol (Oxf). (2016) PMID: 26436542



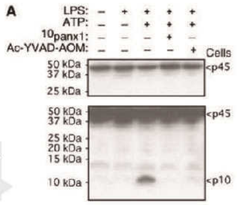
Activity of osteoclasts decreases with Gap 27.

A2700 10Panx

10Panx, Panx-1 mimetic inhibitory peptide, is a blocker of pannexin-1 gap junctions.



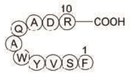
Size:1 mg,5 mg,10 mg,25 mg
Soluble to 1 mg/ml in 20mM PBS buffer



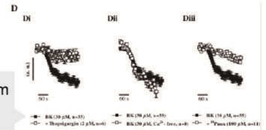
Panx1 inhibition blocks intracellular caspase 1 processing.

A2701 Scrambled 10Panx

Scrambled 10Panx, Panx-1 mimetic inhibitory peptide, is a blocker of pannexin-1 gap junctions.



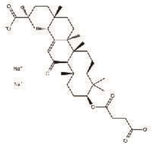
Size:1 mg,5 mg,10 mg,25 mg
Soluble to 0.50 mg/ml in sterile water



Bradykinin elicits ATP release from human fibroblasts.

A8389 Carbenoxolone Disodium

Carbenoxolone disodium is an inhibitor of 11β-hydroxysteroid dehydrogenase (11β-HSD).



Size:50 mg
Soluble to 100 mM in sterile water

Histamine Receptor Inhibitors

Potency Comparison

Inhibitors	Histamine Receptor	Histamine H1-receptor	Histamine H2-receptor	Histamine H3-receptor
Astemizole		**** (IC_{50}:4 nM)		
Buclizine HCl	*			
Cetirizine DiHCl		*		
Clemastine Fumarate		**** (IC_{50}:3 nM)		
Lidocaine		* (IC_{50}:>32 μM)		
Loratadine		*** (Ki:35 nM)		
Mianserin HCl		*		
Rupatadine Fumarate		** (Ki:102 nM)		
Pemirolast potassium		*		
Nizatidine			***** (IC_{50}:0.9 nM)	
Azatadine dimaleate	**** (IC_{50}:6.5 nM)			
Azatadine	**** (IC_{50}:6.5 nM)			
JNJ 5207852 dihydrochloride				***** (pKi:8.9/9.2)
Tiotidine			*	
Iodophenpropit dihydrobromide				***** (K_D:0.3 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1450 Lidocaine

Lidocaine is a selective inverse peripheral histamine H1-receptor agonist with an IC50 of >32 μM.

Size:5 mg,100 mg
Soluble in DMSO > 10 mM

A1796 Mianserin HCl

Mianserin HCl is a non-selective 5-HT2 receptor antagonist, and has moderate affinity for 5-HT6.

Size:5 mg,100 mg
Soluble in DMSO > 10 mM

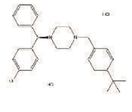
A2960 Loratadine

Loratadine is a peripheral histamine H1 receptor antagonist with Ki of 35 nM.

Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

B1546 Buclizine HCl

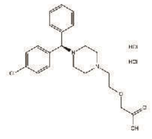
Buclizine HCL is an antihistamine and anticholinergic of the piperazine derivative family.



Size:50 mg
Limited solubility

B1547 Cetirizine DiHCl

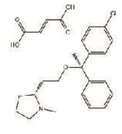
Cetirizine DiHCl, a second-generation antihistamine, is a major metabolite of hydroxyzine, and a racemic selective H1 receptor inverse agonist used in the treatment of allergies, hay fever, angioedema, and urticaria.



Size:100 mg,200 mg,500 mg
Soluble in DMSO > 10 mM

B1558 Clemastine Fumarate

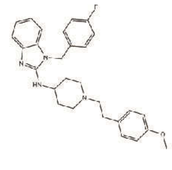
Clemastine Fumarate (Clemastine) is a selective histamine H1 receptor antagonist with IC50 of 3 nM.



Size:50 mg
Soluble in DMSO > 10 mM

B7409 Astemizole

Astemizole is a potent anti-histamine compound that antagonizes the histamine H1-receptor with IC50 of 4 nM.



Size:50 mg,100mg
Soluble in DMSO > 10 mM

Muscarinic Receptor Inhibitors

Potency Comparison

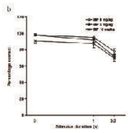
Inhibitors	AChR	AChR (M1)	AChR (M2)	AChR (M3)	AChR (M4)	AChR (M5)
Aclidinium Bromide		***** (Ki:0.1 nM)	***** (Ki:0.14 nM)	***** (Ki:0.14 nM)	***** (Ki:0.21 nM)	***** (Ki:0.16 nM)
Biperiden HCl		*				
Darifenacin HBr				* (pki:8.9)		
Fesoterodine Fumarate	*					
Solifenacin succinate		*	*	*		
AQ-RA 741			* (pKi:8.3)			

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

B1598 Biperiden HCl

Biperiden HCl is an anticholinergic drug which is first used in the treatment of Parkinson's disease. It is a competitive antagonist of muscarinic receptor.

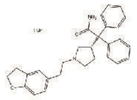
Size:25 mg,100 mg,500 mg
Limited solubility



The effects of BIP on performance measures in the attention task of rats.

B1600 Darifenacin HBr

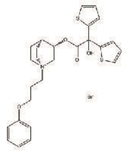
Darifenacin HBr (UK88525) is a selective M3 muscarinic receptor antagonist with pKi of 8.9.



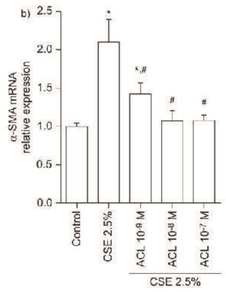
Size:10 mg,100 mg,1 g
Soluble in DMSO > 10 mM

B1609 Aclidinium Bromide

Aclidinium Bromide inhibits the specific binding of [3H]-NMS to human M receptors in a dose-denpendent fasion with Ki values of 0.10±0.00, 0.14±0.04, 0.14±0.02, 0.21±0.04 and 0.16±0.01 nM for M1, M2,M3,M4 and M5, respectively.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

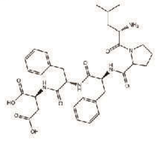


ACL attenuates CSE-induced myofibroblast markers.

Neuroscience Peptides

A1005 Beta-Sheet Breaker Peptide iAβ5

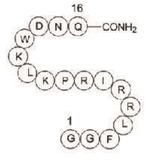
Beta-Sheet Breaker Peptide iAβ5 (C33H43N5O8), with the sequence H-Leu-Pro-Phe-Phe-Asp-OH, has been shown to inhibit amyloidogenesis in rat brain models.



Size:5 mg,10 mg,25 mg

A1012 Dynorphin (2-17), amide, porcine

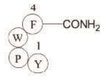
Dynorphins are a class of opioid peptides that arise from the precursor protein prodynorphin.



Size:1 mg,5 mg,10 mg,25 mg

A1013 Endomorphin-1

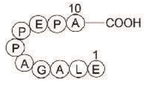
Endomorphin-1 (Tyr-Pro-Trp-Phe-NH2) is a endogenous opioid peptide with the highest known affinity and specificity for the μ opioid receptor.



Size:25mg
Soluble to 0.60 mg/ml in sterile water

A1014 Beta-Lipotropin (1-10), porcine

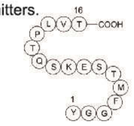
β-Lipotropin, which stimulates melanocytes to produce melanin, is a 90-amino acid polypeptide that is the carboxy-terminal fragment of POMC.



Size:5 mg,10 mg,25 mg
Soluble in Water

A1015 Alpha-Endorphin

Endorphins are endogenous opioid peptides that function as neurotransmitters.



Size:1 mg,5 mg,10 mg,25 mg

A1016 Ac-Endothelin-1 (16-21), human

ENDOTHELIN-1 (ET-1), the principal peptide of the endothelin family, has a variety of biological activities in both vascular and nonvascular tissues.

Size:1 mg,5 mg,10 mg,25 mg

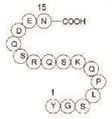
A1017 Adrenorphin, Free Acid

Adrenorphin exhibits potent opioid activity, acting as a balanced μ- and κ-opioid receptor agonist while having no effects on δ-opioid receptors.

Size:5 mg,10 mg,25 mg

A1031 Myelin Basic Protein (68-82), guinea pig

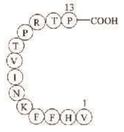
Myelin Basic Protein (68-82), guinea pig, (C71H113N23O28), is a peptide with the sequence Tyr-Gly-Ser-Leu-Pro-Gln-Lys-Ser-Gln-Arg-Ser-Gln-Asp-Glu-Asn, MW= 1736.79. MBP is a protein believed to be important in the process of myelination of nerves in the nervous system.



Size:5 mg,10 mg,25 mg

A1040 Myelin Basic Protein (87-99)

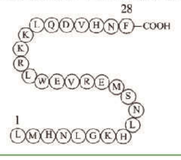
The basic protein is a major structural protein of the central nervous system myelin in which it constitutes 30% of the total protein.



Size:1 mg,5 mg,10 mg,25 mg
Soluble to 0.50 mg/ml in sterile water

A1084 Parathyroid hormone (7-34) [Homo sapiens]/[Macaca fascicularis]

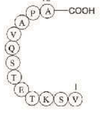
Parathyroid hormone (7-34) [Homo sapiens] [Macaca fascicularis], (C154H246N48O40S2),a peptide with the sequence H2N-LMHNLGKHLNSMERVEWLRKKLQDVHNF-OH, MW= 3474.03.



Size:1 mg,5 mg,10 mg,25 mg

A1087 Rhodopsin peptide

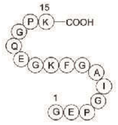
Rhodopsin peptide,(C51H88N14O20), a peptide with the sequence H2N-Val-Ser-Lys-Thr-Glu-Thr-Ser-Gln-Val-Ala-Pro-Ala-OH, MW= 1217.33.



Size:1 mg,5 mg,10 mg,25 mg

A1096 Type II collagen fragment

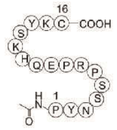
Type II collagen is one of the major components of the extracellular matrix of cartilage.



Size:1 mg,5 mg,10 mg,25 mg

A1112 Nitric Oxide Synthase (599-613) Blocking Peptide, Bovine Endothelial Cell

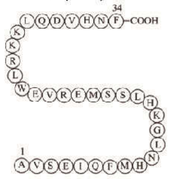
Nitric oxide synthases (NOSs) are a family of enzymes catalyzing the production of nitric oxide (NO) from L-arginine.



Size:1 mg,5 mg,10 mg,25 mg

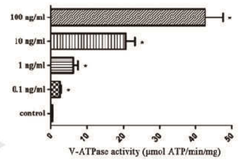
A1114 Parathyroid Hormone (1-34), bovine

Parathyroid hormone (PTH) is the most important endocrine regulator of calcium and phosphorus concentration in extracellular fluid.



Size:1 mg,5 mg,10 mg,25 mg

Effect of bPTH on V-ATPase activity.



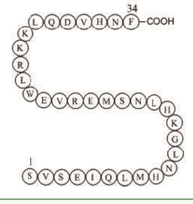
A1121 Melanocyte stimulating hormone release inhibiting factor

Melanocyte stimulating hormone release inhibiting factor (C13H24N4O3) is a tri-peptide with the sequence H2N-Pro-Leu-Gly-amide, MW= 284.35.

Size:5 mg,10 mg,25 mg
Soluble in water

A1129 Parathyroid hormone (1-34) (human)

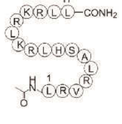
Parathyroid hormone (1-34) (human), (C181H291N55O51S2), a peptide with the sequence H2N-SVSEIQLMHNLGKHLNSMERVEWLR KKLQDVHNF-OH, MW= 4117.72.



Size:1 mg,5 mg,10 mg,25 mg
Soluble to 0.40 mg/ml in sterile water

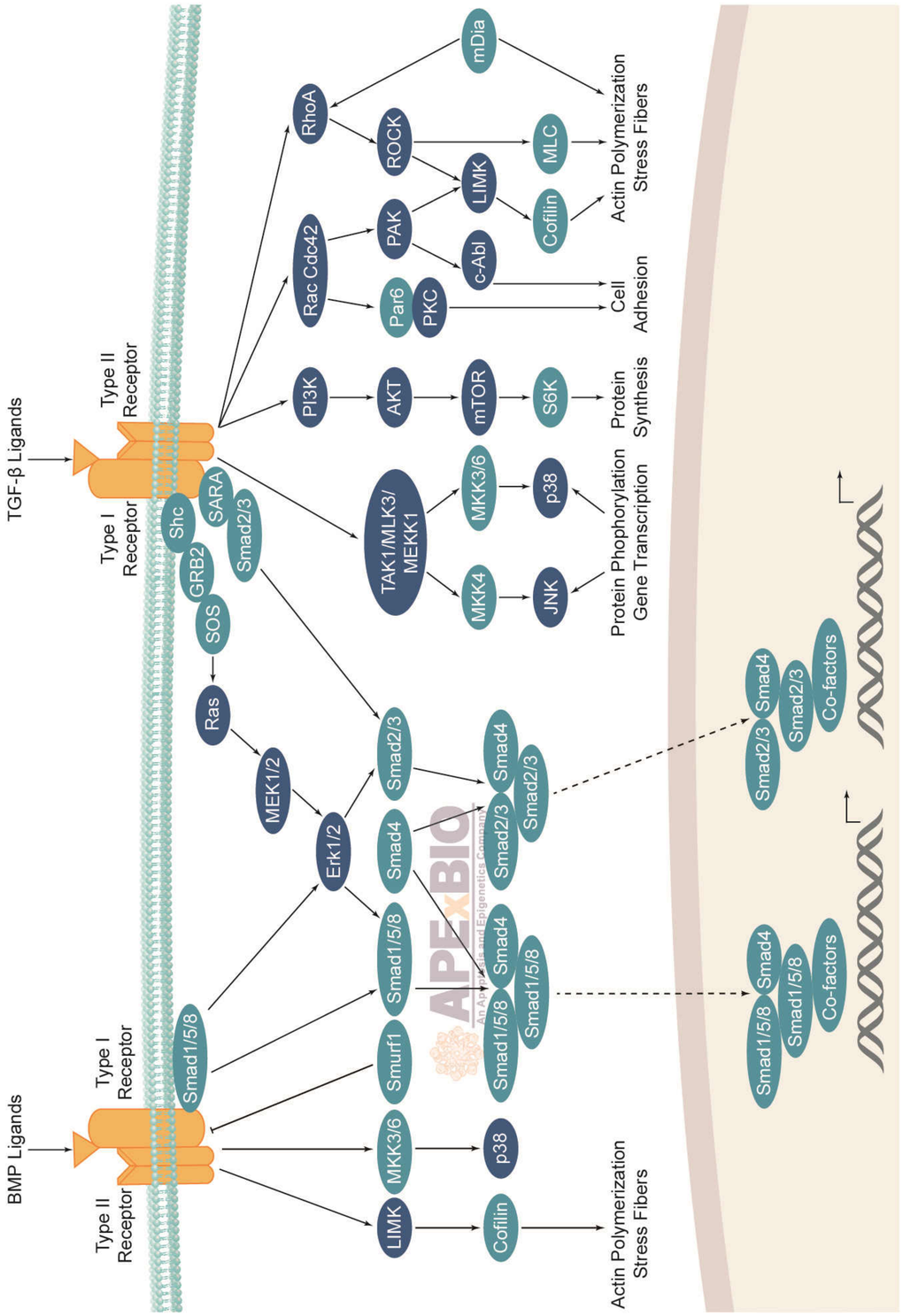
A1131 COG 133

COG 133, (C97H181N37O19), a peptide with the sequence Ac-Leu-Arg-Val-Arg-Leu-Ala-Ser-His-Leu-Arg-Lys-Leu-Arg-Lys-Arg-Leu-Leu-amide, MW= 2169.73.



Size:1 mg,5 mg,10 mg,25 mg
Soluble to 1 mg/ml in sterile water

TGF-β/Smad Signaling



Bcr-Abl Inhibitors

See page 51 on for the relevant product information.

PKC Inhibitors/Activators

Potency Comparison

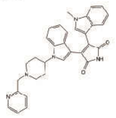
Inhibitors	Pan-PKC	PKCα	PKCβ	PKCγ	PKCη	PKCδ	PKCε	PKMζ	PKCθ	PKCμ
Chelerythrine Chloride	** (IC_{50}:660 nM)									
Enzastaurin (LY317615)		*** (IC_{50}:39 nM)	**** (IC_{50}:6 nM)	*** (IC_{50}:83 nM)			** (IC_{50}:110 nM)			
GF 109203X		*** (IC_{50}:20 nM)	*** (IC_{50}:17 nM)	**** (IC_{50}:20 nM)						
Go 6983		**** (IC_{50}:7 nM)	**** (IC_{50}:7 nM)	***** (IC_{50}:6 nM)	*	**** (IC_{50}:10 nM)	*	*** (IC_{50}:60 nM)		* (IC_{50}:20 μM)
K-252c	* (IC_{50}:2.45 μM)									
Sotrastaurin (AEB071)									***** (Ki:0.22 nM)	
ZIP								*		
Dequalinium Chloride	* (IC_{50}:7-18 μM)									
Go 6976		**** (IC_{50}:2.3 nM)	**** (IC_{50}:6.2 nM)							
Midostaurin (PKC412)		*** (IC_{50}:22 nM)	*** (IC_{50}:30 nM)	*** (IC_{50}:24 nM)	** (IC_{50}:160 nM)	** (IC_{50}:330 nM)	* (IC_{50}:1.25 μM)			
Ro 31-8220		**** (IC_{50}:5 nM)	*** (IC_{50}:24 nM)	*** (IC_{50}:27 nM)			*** (IC_{50}:24 nM)			

Activator	Pan-PKC	PKCα	PKCβ	PKCγ	PKCη	PKCδ	PKCε	PKMζ	PKCθ	PKCμ
Zoledronic Acid	*									

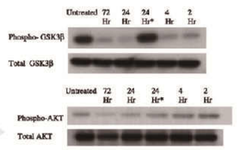
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1670 Enzastaurin (LY317615)

Enzastaurin (LY317615) is a potent and selective inhibitor of PKCβ with IC50 of 6 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

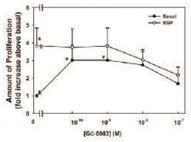


Enzastaurin decreases phosphorylation of GSK3β and AKT.

A8343 Go 6983

Go 6983 is an inhibitor of pan-PKC with IC50 values of 7 , 7 , 6 and 10 nM for PKCα, PKCβ, PKCγ and PKCδ, respectively.

Size:5 mg,10 mg
Soluble in DMSO > 10 mM



Go 6983 blocks EGF-stimulated rat goblet cell proliferation.

A3306 Chelerythrine Chloride

Chelerythrine is a potent, selective antagonist of PKC (protein kinase C) with IC50 value of 0.66 μM.

Size:5 mg,10 mg,50 mg,100 mg
Limited solubility

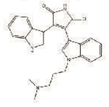
A8344 K-252c

K-252c is a cell-permeable, reversible, and ATP-competitive inhibitor of PKC and PKA with IC50 value of 2.45 μM and 25.7 μM, respectively.

Size:1 mg,5 mg,25 mg
Soluble in DMSO > 10 mM

A8342 GF 109203X

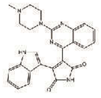
GF 109203X is a potent inhibitor of PKC with IC50 of 20, 17, 16, and 20 nM for PKCα, PKCβI, PKCβII, and PKCγ, respectively.



Size:5 mg,10 mg
Soluble in DMSO > 10 mM

A8525 Sotrastaurin (AEB071)

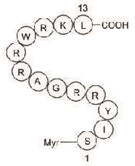
Sotrastaurin (AEB071) is an inhibitor of PKC and has the ability of immune suppression by blocking the T-cell activation.



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A8830 ZIP

ZIP reverses late-phase LTP with an IC50 of 1 - 2.5 μM by suppressing protein kinase Mξ (PKMξ).



Size:1mg
Soluble to 1 mg/ml in 20% ethanol / sterile water

ROCK Inhibitors/Activators

Potency Comparison

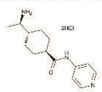
Inhibitors	Pan-ROCK	ROCK1	ROCK2
Fasudil (HA-1077) HCl	* (IC_{50}:10.7 μM)		
GSK429286A		*** (IC_{50}:14 nM)	*** (IC_{50}:63 nM)
RKI-1447		*** (IC_{50}:15.4 nM)	**** (IC_{50}:6.2 nM)
SLx-2119		* (IC_{50}:24 μM)	** (IC_{50}:105 nM)
Thiazovivin	** (IC_{50}:0.5 μM)		
Y-27632 Dihydrochloride		** (Ki:140 nM)	** (Ki:300 nM)
SR-3677			***** (IC_{50}:0.3 nM)
Y-39983 Dihydrochloride	**** (IC_{50}:3.6 nM)		

Activator	Pan-ROCK	ROCK1	ROCK2
Narciclasine	*		

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

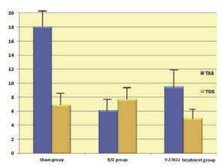
A3008 Y-27632 Dihydrochloride

Y-27632 dihydrochloride is a small-molecule inhibitor of Rho-associated protein kinase p160ROCK with the IC50 of 140 nM.



Size:10 mg,50 mg,200 mg
Soluble to 100 mM in sterile water

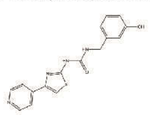
Product Citation:
Am J Respir Cell Mol Biol (2016). PMID:27144410



TAS and TOS values in all the groups.

A3771 RKI-1447

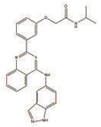
RKI-1447 is a potent inhibitor of ROCK 1 and 2 (Rho-associated protein kinase 1 and 2) which are serine-threonine kinase.



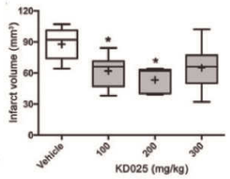
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A3825 SLx-2119

SLx-2119 (KD-025) is a selective inhibitor of ROCK2 with IC50 of 105 nM.



Size:5 mg,10 mg,25 mg
Soluble in DMSO



KD-025 significantly decreased the infarct volumes.

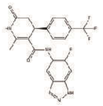
A5506 Thiazovivin

Thiazovivin enhances the efficiency of fibroblast reprogramming to generate induced pluripotent stem cells (iPSCs) when used in combination with SB 431542 and PD 0325901.

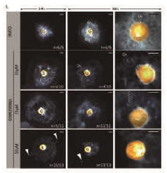
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A5611 GSK429286A

GSK429286A is a selective inhibitor of ROCK1 and ROCK2 with IC50 value of 14 nM and 63 nM, respectively.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



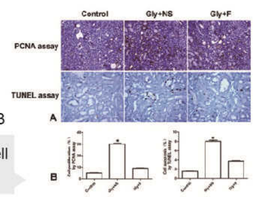
Exposure to GSK429286A induced growth zone aberrance.

A5734 Fasudil (HA-1077) HCl

Fasudil (HA-1077) HCl is a selective inhibitor of ROCK with IC50 value of 0.74 μM.

Size:200 mg,500 mg
Soluble in DMSO > 10 mM

Product Citation:
Experimental and Molecular Pathology (2015).PMID:25697583



Effects of fasudil on the kidney cell proliferation and apoptosis.

TGF-β Inhibitors

Potency Comparison

Inhibitors	TGF-βR1	ALK2	ALK3	ALK4	ALK5	ALK7
LDN-193189		**** (IC_{50}:5 nM)	*** (IC_{50}:30 nM)			
LDN193189 Hydrochloride		**** (IC_{50}:5 nM)	*** (IC_{50}:30 nM)			
LY364947					*** (IC_{50}:59 nM)	
Pirfenidone	*					
A 77-01					*** (IC_{50}:25 nM)	
A 83-01				*** (IC_{50}:45 nM)	*** (IC_{50}:12 nM)	**** (IC_{50}:7.5 nM)
DMH-1		** (IC_{50}:107.9 nM)				
GW788388					*** (IC_{50}:18 nM)	
K02288					** (IC_{50}:321 nM)	
LDN-212854					* (IC_{50}:2 μM)	
LY2157299	*** (IC_{50}:56 nM)					
SB 431542					*** (IC_{50}:94 nM)	
SB 505124 Hydrochloride				*	*	*
SB 525334					*** (IC_{50}:14.3 nM)	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

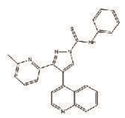
A3132 A 77-01

A 77-01 is a potent ALK5 inhibitor.

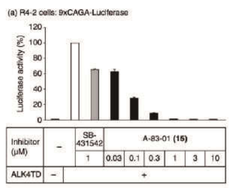
Size:10 mg,25 mg
Soluble in DMSO

A3133 A 83-01

A 83-01 is a small-molecule inhibitor of activin receptorlike kinase (ALK)-5 with IC50 value of 12 nM.



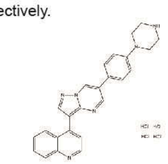
Size:10 mg,25 mg
Soluble in DMSO > 10 mM



A-83-01 inhibits the transcriptional activation induced by ALK-4.

A3545 LDN193189 Hydrochloride

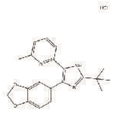
LDN193189 HCl, the hydrochloride salt of LDN193189, is a selective inhibitor of BMP signaling with IC50 of 5 nM and 30 nM for the transcriptional activity of the BMP type I receptors ALK2 and ALK3 , respectively.



Size:5 mg,10 mg,50 mg
Limited solubility

A3799 SB 505124 Hydrochloride

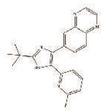
SB505124 is a selective inhibitor of TGFβR for ALK4, ALK5 with IC50 value of 129 nM and 47 nM.



Size:5 mg,10mg,50 mg
Soluble in DMSO

A5602 SB 525334

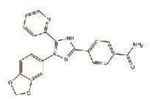
SB525334 is a potent and selective inhibitor of TGFβ receptor I (ALK5) with IC50 of 14.3 nM, is 4-fold less potent to ALK4 than ALK5 and inactive to ALK2, 3, and 6.



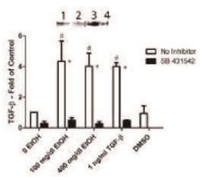
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A8249 SB 431542

SB 431542 is a selective ATP-competitive inhibitor of ALK5 (activin receptor-like kinase 5) with an IC50 value of 94 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

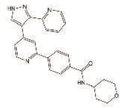


SB 431542 reduces the expression of TGF-β increased by ethanol.

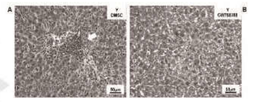
TGF-β

A8301 GW788388

GW788388 is a selective inhibitor of ALK5 with IC50 value of 18 nM.



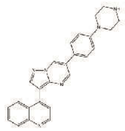
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



GW788388 decreases liver and renal alterations.

A8324 LDN-193189

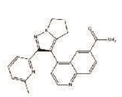
LDN-193189 is a selective inhibitor of BMP signaling for the BMP type I receptors ALK2 and ALK3 with IC50 of 5 nM and 30 nM, respectively.



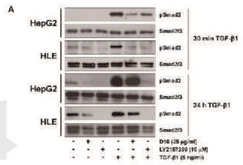
Size:5 mg,10 mg,50 mg
Limited solubility

A8348 LY2157299

LY2157299 is a potent inhibitor of TGFβ receptor I (TβRI) with IC50 of 56 nM.



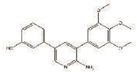
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



Effect of LY2157299 and D10 on SMAD2 activity in HCC cells.

B2286 K02288

K02288 is a highly selective inhibitor of ALK2 with IC50 value of 1.1 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B2287 LY364947

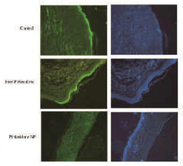
LY364947 is a inhibitor of the transforming growth factor-β type I receptor kinase domain.

Size:10 mg,25 mg,50 mg
Limited solubility

B2288 Pirfenidone

Pirfenidone is an inhibitor for TGF-β production and TGF-β stimulated collagen production, reduces production of TNF-α and IL-1β, and also has anti-fibrotic and anti-inflammatory properties.

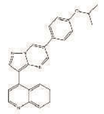
Size:10 mg,50 mg
Soluble in DMSO > 10 mM



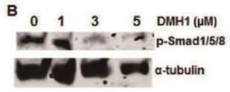
Collagen 1 was reduced in the pirfenidone NP treated cornea.

B3686 DMH-1

DMH-1 is a small molecule inhibitor of bone morphogenetic protein (BMP) signaling with IC50 value of 107.9 nM against ALK2.



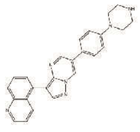
Size:10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM



DMH1 inhibits basal Smad phosphorylation in NSCLC cells.

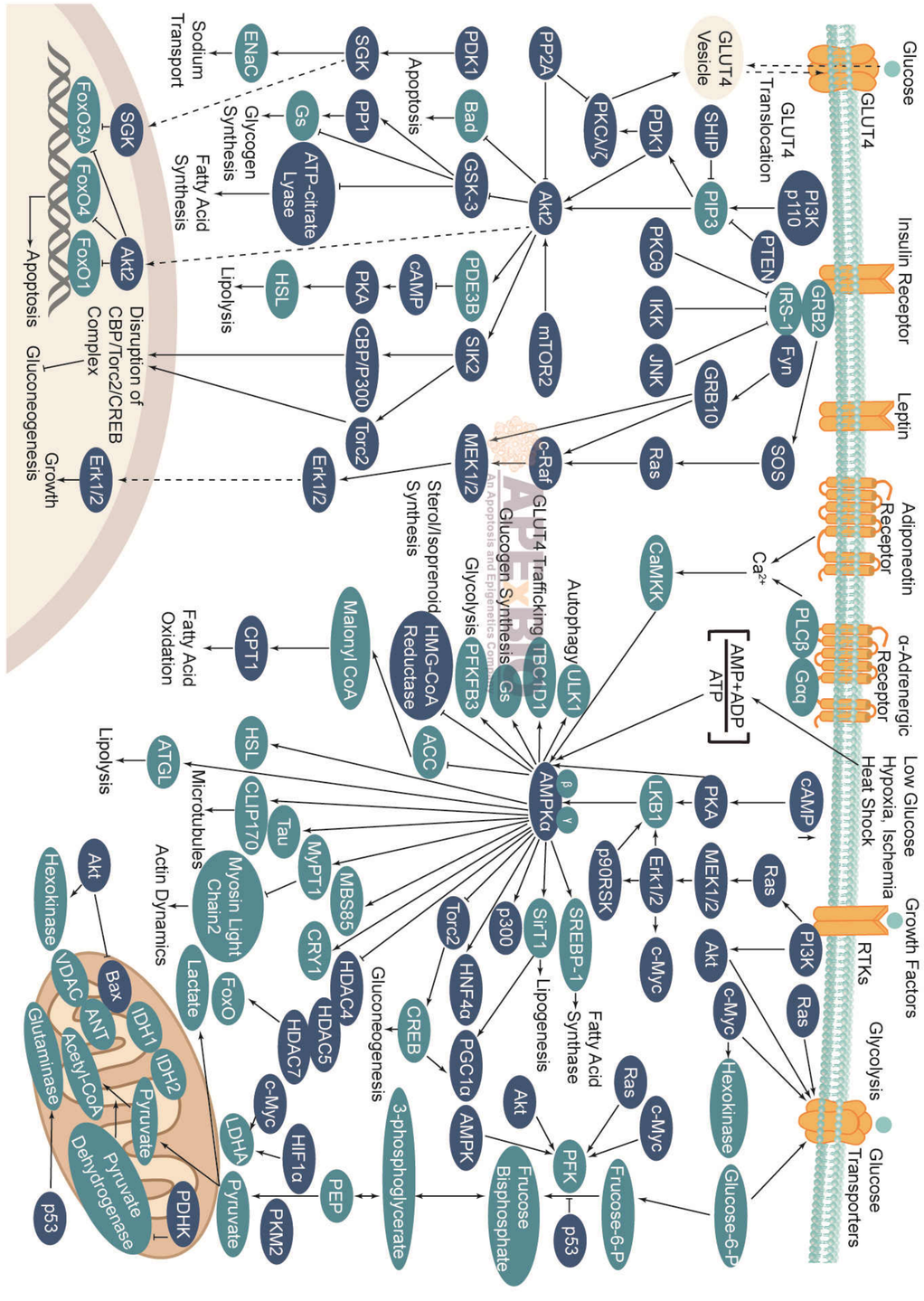
B3687 LDN-212854

LDN-212854 is a selective inhibitor of bone morphogenetic protein (BMP) signaling with IC50 value of 1.2 nM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

Metabolism



HSP Inhibitors

See page 169 for the relevant product information.

Carbonic Anhydrase Inhibitors

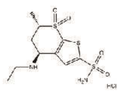
Potency Comparison

Inhibitors	Pan-CA	CA I	CA II	CA IV	CA IX
Dorzolamide HCl	*				
Methazolamide			**** (IC_{50}:8.1 nM)	*** (IC_{50}:80.3 nM)	
Topiramate	*				
U-104					*
Chlorothiazide	*				
Dichlorphenamide	*				
Dorzolamide			**** (Ki:1.9 nM)	*** (Ki:31 nM)	
KC7F2					*
Brinzolamide			**** (IC_{50}:3.19 nM)		
Tioxolone		*** (Ki:91 nM)			

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4357 Dorzolamide HCl

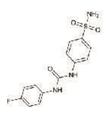
Dorzolamide HCl is a carbonic anhydrase inhibitor.



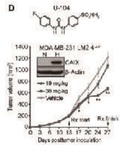
Size:10 mg,25 mg,100 mg
Limited solubility

A4358 U-104

U-104 is a novel ureido-sulfonamide inhibitor of Carbonic Anhydrase IX (CAIX).



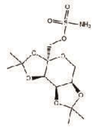
Size:10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM



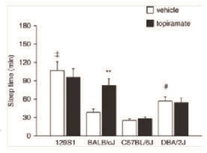
Effect of a U-104 on primary breast tumor growth.

A4360 Topiramate

Topiramate is an anticonvulsant compound.



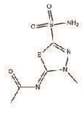
Size:100 mg
Soluble in DMSO > 10 mM



Effects of topiramate across inbred strains.

A4364 Methazolamide

Methazolamide is an inhibitor of CA that potently inhibits CA II and CA IV with IC50 values of 8.1 nM and 80.3 nM, respectively.

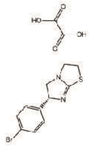


Size:50 mg
Soluble in DMSO > 10 mM

ALP Inhibitor

B4750 (-)-p-Bromotetramisole Oxalate

(-)-p-Bromotetramisole Oxalate is a potent and non-specific inhibitor of alkaline phosphatase.

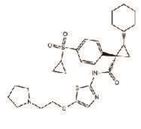


Size:10 mg,50 mg
Soluble in DMSO > 10 mM

Glucokinase Inhibitor

B2160 LY2608204

LY2608204 is an activator of glucokinase (GK) with an EC50 value of 42 nM.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

CETP Inhibitors

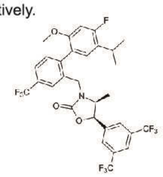
Potency Comparison

Inhibitors	CETP	rhCETP	Mutant CETP(C13S)
Anacetrapib (MK-0859)		**** (IC_{50}:7.9 nM)	*** (IC_{50}:11.8 nM)
Dalcetrapib (JTT-705, RO4607381)		* (IC_{50}:0.2 μM)	
Evacetrapib (LY2484595)	*** (IC_{50}:5.5 nm)		
Torcetrapib	*** (IC_{50}:50 nM)		

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4375 Anacetrapib (MK-0859)

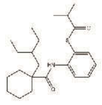
Anacetrapib is a potent, selective, reversible inhibitor of rhCETP and mutant CETP(C13S) with IC50 values of 7.9 nM and 11.8 nM, respectively.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM
Product Citation:
Rejuvenation Res. (2016)
PMID: 26413884

A4376 Dalcetrapib (JTT-705, RO4607381)

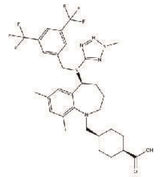
Dalcetrapib is a novel inhibitor of CETP with IC50 value of 6 μM.



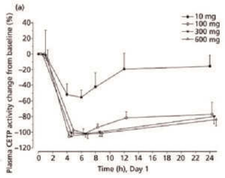
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A4377 Evacetrapib (LY2484595)

Evacetrapib is a potent and selective inhibitor of cholesteryl ester transfer protein (CETP) with IC50 value of 5.5 nM.



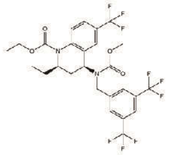
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



Change in plasma CETP activity following first dose of evacetrapib.

A4378 Torcetrapib

Torcetrapib, a CETP inhibitor with IC50 of 37 nM, elevates HDL-C and reduces nonHDL-C in plasma.



Size:5mg,10 mg,50 mg
Soluble in DMSO > 10 mM

Dehydrogenase Inhibitors

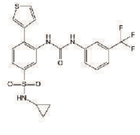
Potency Comparison

Inhibitors	IMPDH I	IMPDH II	IDH	LDH	ALDH2	SCD1	PDH	α-KDH	DPD
AGI-5198			*** R132H-IDH1(IC_{50}:0.07 μM), R132C-IDH1(IC_{50}:0.16 μM)						
AGI-6780			*** R140Q-IDH2(IC_{50}:23 nM), WT-IDH2(IC_{50}:190 nM)						
Alda 1					*				
CPI-613							*	*	
Gimeracil									*
Isosafrole				*					
Mycophenolate Mofetil	*** (IC_{50}:39 nM)	*** (IC_{50}:27 nM)							
PluriSIn #1 (NSC 14613)						*			
Stiripentol				*					

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3146 AGI-6780

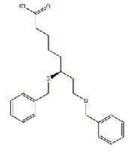
AGI-6780 is a potent and selective inhibitor of tumor-associated IDH2/R140Q mutation with IC50 value of 23 nM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A4333 CPI-613

CPI-613 is a first-in-class anti-cancer agent.

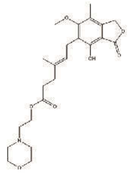


Size:5 mg,10mg,50 mg,100mg
Soluble in DMSO > 10 mM

Metabolism

A4336 Mycophenolate Mofetil

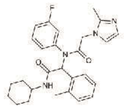
Mycophenolate Mofetil is a non-competitive, selective and reversible inhibitor of inosine monophosphate dehydrogenase I/II with IC50 of 39 nM and 27 nM, respectively.



Size:50 mg,100 mg,200 mg
Soluble in DMSO > 10 mM

A4339 AGI-5198

AGI-5198 is the first highly potent and selective inhibitor of IDH1 R132H/R132C mutants with IC50 of 0.07 μM/0.16 μM.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

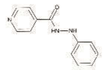
A4342 Gimeracil

Gimeracil is an inhibitor of dihydropyrimidine dehydrogenase, which inhibits the early step in homologous recombination for double strand breaks repair.

Size:25 mg
Soluble in DMSO > 10 mM

A4351 PluriSIn 1 (NSC 14613)

PluriSIn 1 (NSC 14613) is a pluripotent cell-specific inhibitor (PluriSIn) that selectively eliminates hPSCs.

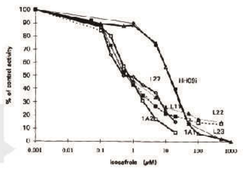


Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8703 Isosafrole

Isosafrole, a stiripentol analog, is a potent LDH inhibitor.

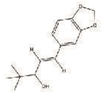
Size:5 mg,25 mg
Soluble in DMSO



Inhibitory effect of isosafrole on EROD activity

A8704 Stiripentol

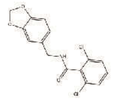
Stiripentol is an LDH inhibitor.



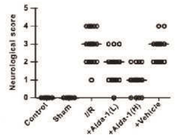
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO

B5508 Alda 1

Alda 1 is an activator of aldehyde dehydrogenase 2 (ALDH2).



Size:10 mg,50 mg
Soluble in DMSO > 10 mM



Effect of Alda-1 on neurological deficit score.

DHFR Inhibitors

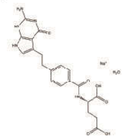
Potency Comparison

Inhibitors	DHFR
Methotrexate	*
Pemetrexed disodium hemipenta hydrate	**** (Ki:7.2 nM)
Pralatrexate	*
Pyrimethamine	*** (IC_{50}:15.4 nM)
Pemetrexed	**** (Ki:7.2 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3707 Pemetrexed disodium hemipenta hydrate

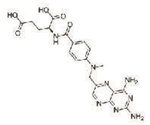
Pemetrexed is approved as a first-line treatment for advanced NSCLC with cisplatin and as a single agent for second-line treatment.



Size:250 mg,500 mg,1 g,5 g
Soluble in Water

A4347 Methotrexate

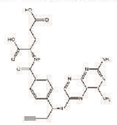
Methotrexate is a potent anti-inflammatory agent, the anti-phlogistic action of which is due to increased adenosine release at inflamed sites.



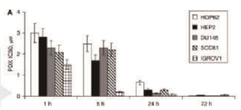
Size:100 mg,200 mg,500 mg
Soluble in DMSO > 10 mM

A4350 Pralatrexate

Pralatrexate is an inhibitor of DHFR with Ki value of 45 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM



Pralatrexate cytotoxicity in a panel of human cancer cell lines.

A4353 Pyrimethamine

Pyrimethamine is a dihydrofolate reductase(DHFR) inhibitor with an IC50 of 15.4 nM.

Size:10 mg,50 mg
Soluble in DMSO > 10 mM

Dopamine β-hydroxylase Inhibitors

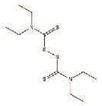
Potency Comparison

Inhibitors	Dopamine β-hydroxylase	GBB Hydroxylase
Disulfiram	*	
Mildronate		* (IC_{50}:40 μM)
Nepicastat (SYN-117) HCl	**** (IC_{50}:9.0 nM)	

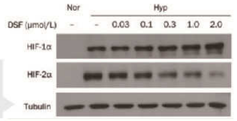
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4015 Disulfiram

Disulfiram blocks the processing of alcohol in the body by inhibiting acetaldehyde dehydrogenase thus causing an unpleasant reaction when alcohol is consumed.



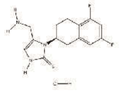
Size:100 mg,500 mg
Soluble in DMSO > 10 mM



Effects of disulfiram on the expression of HIF-1α and HIF-2α.

A4332 Nepicastat (SYN-117) HCl

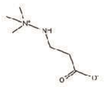
Nepicastat (SYN-117) HCl is a potent and selective inhibitor of dopamine-β-hydroxylase with IC50 values of 8.5 and 9.0 nM in bovine and human, respectively.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A4335 Mildronate

Mildronate is an inhibitor of biosynthesis of L-carnitine by gamma-butyrobetaine (GBB) hydroxylase and as a competitive inhibitor of renal carnitine reabsorption.



Size:50 mg
Limited solubility

Factor Xa Inhibitors

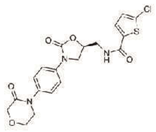
Potency Comparison

Inhibitors	Factor Xa	Thromboxane A2 Synthetase
Ozagrel		***** (IC_{50}:4 nM)
Rivaroxaban	***** (IC_{50}:0.7 nM)	
Betrixaban	**** (IC_{50}:1.5 nM)	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4338 Rivaroxaban

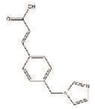
Rivaroxaban is a potent small-molecule inhibitor of factor Xa (Ki:0.4 nM).



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A4344 Ozagrel

Ozagrel is a potent and selective thromboxane A2 synthetase inhibitor with an IC50 of 4 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

Ferroptosis Inhibitors

Potency Comparison

Inhibitors	Ferroptosis
Ferrostatin-1 (Fer-1)	*** (EC_{50}:60 nM)
Liproxstatin-1	*** (IC_{50}:50 nM,20 nM,200 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

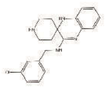
A4371 Ferrostatin-1 (Fer-1)

Ferrostatin-1 is a selective inhibitor of erastin induced ferroptosis with EC50 value of 60 nM.

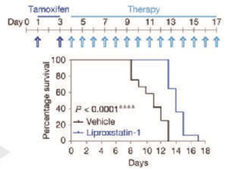
Size:5 mg,25mg,100mg
Soluble in DMSO > 10 mM

B4987 Liproxstatin-1

Liproxstatin-1 is a potent ferroptosis inhibitor.



Size:5 mg,25 mg,100 mg
Soluble in DMSO

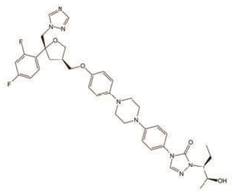


Liproxstatin-1 retards death of mice induced by Gpx4 deletion.

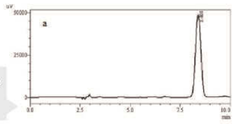
C14α Demethylase Inhibitor

A1718 Posaconazole

Posaconazole is an inhibitor of C14α demethylase with IC50 value of 0.25 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



LC chromatograms of posaconazole degraded samples.

HMG-CoA Reductase Inhibitors

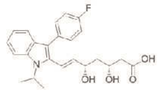
Potency Comparison

Inhibitors	HMG-CoA Reductase
Atorvastatin Calcium	** (IC_{50}:150 nM)
Fluvastatin	**** (IC_{50}:8 nM)
Lovastatin	**** (IC_{50}:3.4 nM)
Mevastatin	***** (Ki:1 nM)
Pitavastatin Calcium	*
Pravastatin Sodium	*** (IC_{50}:44.1 nM)
Simvastatin (Zocor)	*
Pitavastatin	**** (IC_{50}:5.8 nM)
Pravastatin	* (IC_{50}:5.6 μM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3419 Fluvastatin

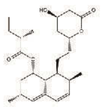
Fluvastatin is a competitive inhibitor of hydroxymethylglutaryl-coenzyme A reductase (HMGCR).



Size:50 mg,100 mg,200 mg
Soluble in 25 mg/ml water,100 mg/ml DMSO or 25 mg/ml Ethanol

A4365 Lovastatin

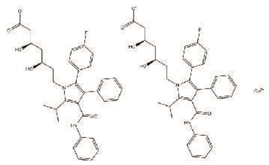
Lovastatin is an inhibitor of 3-hydroxy-3-methyl-glutaryl-CoA (HMG-CoA) reductase with IC50 values of 2.3 nmol/L in rat liver cells and 5 nmol/L in the human liver hepatocellular carcinoma cell line, HepG2.



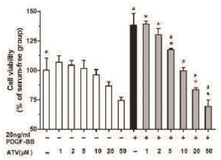
Size:50 mg
Soluble in DMSO > 10 mM

A4367 Atorvastatin Calcium

Atorvastatin calcium is a potent inhibitor of HMG-CoA reductase with IC50 value of 150 nM.



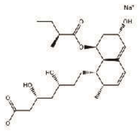
Size:50 mg,500 mg
Soluble in DMSO > 10 mM



Antiproliferative activity of ATV in PDGF-BB-stimulated VSMCs.

A4369 Pravastatin Sodium

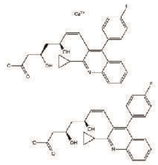
Pravastatin sodium is a high selective inhibitor of 3-hydroxy-3-methylglutaryl coenzyme-A (HMG-CoA) reductase of 44.1 nM.



Size:50 mg,200 mg
Soluble in DMSO > 10 mM

A8504 Pitavastatin Calcium

Pitavastatin Calcium is a competitive inhibitor of the enzyme HMGCR (HMG-CoA reductase) results in a reduction in LDL cholesterol synthesis.

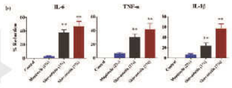


Size:10 mg,25 mg
Soluble in DMSO > 10 mM

A8522 Simvastatin (Zocor)

Simvastatin (Zocor)HMGCR is a competitive (HMG-CoA reductase) inhibitor.

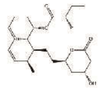
Size:50 mg,250 mg
Soluble in DMSO > 10 mM



Antibacterial and anti-inflammatory activities of Simvastatin.

B1788 Mevastatin

Mevastatin is an inhibitor of HMG-CoA reductase with Ki value of 1 nM.



Size:50 mg
Soluble in DMSO > 10 mM

IDO Inhibitors

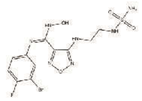
Potency Comparison

Inhibitors	HMG-CoA Reductase
IDO inhibitor 1	*** (IC_{50}: <100 nM)
INCB024360	**** (IC_{50}:10 nM)
NLG919	**** (Ki:7 nM)
Indoximod (NLG-8189)	*

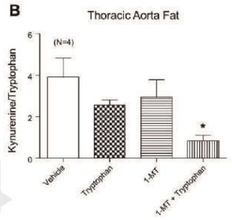
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3483 IDO inhibitor 1

IDO inhibitor 1 is a potent and novel indoleamine-2,3 dioxygenase (IDO) inhibitor with IC50 value <100 nM.



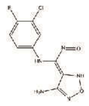
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO



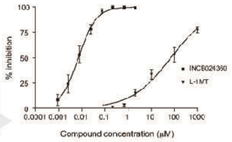
Effect of the IDO inhibitor 1-1-MT on kynurenine conversion.

A3493 INCB024360

INCB024360 analogue is a potent and selective inhibitor of IDO1 with IC50 value of 67 nM.



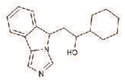
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM



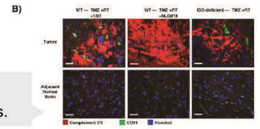
INCB024360 inhibits kynurenine production in human HeLa cells.

A4373 NLG919

NLG919 is a potent inhibitor of indoleamine-2,3-dioxygenase (IDO)-pathway with Ki value of 7 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM



NLG919 triggers widespread complement deposition in tumors.

MAO Inhibitors

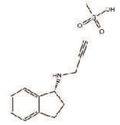
Potency Comparison

Inhibitors	MAO-B	MAO-A
Rasagiline Mesylate	**** (IC_{50}:4.43 nM)	** (IC_{50}:412 nM)
Safinamide Mesylate	*** (IC_{50}:98 nM)	
Moclobemide (Ro 111163)		** (IC_{50}:10 μM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4366 Rasagiline Mesylate

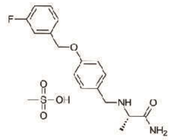
Rasagiline mesylate is a new MAO-B inhibitor for the treatment of idiopathic Parkinson's disease.



Size:50 mg
Soluble in DMSO > 10 mM

A4368 Safinamide Mesylate

Safinamide mesylate is a potent and selective inhibitor of MAO-B with IC50 value of 98 nM.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

P450 Inhibitors

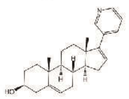
Potency Comparison

Inhibitors	CYP1A1	CYP1A2	CYP1B1	CYP2C9	CYP2C19	CYP17A1	CYP3A4	CYP3A5
Abiraterone						**** (IC_{50}:2 nM)		
Abiraterone Acetate						*** (IC_{50}:72 nM)		
Avasimibe		* (IC_{50}:13.9 μM)		* (IC_{50}:2.9 μM)	* (IC_{50}:26.5 μM)			
Ketoconazole						*	*	*
(+)-Ketoconazole						*	*	*
PF-4981517							*** (IC_{50}:30 nM)	
Alizarin	*	*	*					

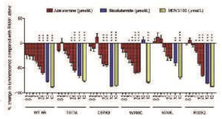
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4240 Abiraterone

Abiraterone is a potent inhibitor of CYP17 with IC50 of 2 nM.



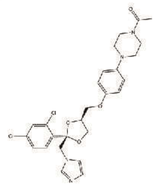
Size:5 mg,10mg,25 mg,100 mg
Limited solubility



Abiraterone inhibits AR.

A4316 Ketoconazole

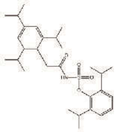
Ketoconazole inhibits cyclosporine oxidase and testosterone 6 beta-hydroxylase with IC50 of 0.19 mM and 0.22 mM, respectively.



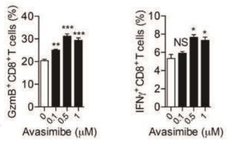
Size:100 mg,500 mg
Limited solubility

A4318 Avasimibe

Avasimibe is an orally bioavailable inhibitor of ACAT with IC50 value of 3.3 μM.



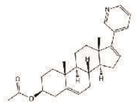
Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



Avasimibe treatment leads to enhanced TCR clustering.

A8202 Abiraterone Acetate

Abiraterone acetate, an acetate salt form of Abiraterone, is an inhibitor of steroidal cytochrome CYP17 with IC50 of 72 nM.



Size:5 mg,50 mg
Limited solubility

PDE Inhibitors

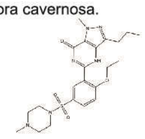
Potency Comparison

Inhibitors	Pan-PDE	PDE1	PDE3	PDE4	PDE5
Apremilast (CC-10004)				*** (IC_{50}:74 nM)	
GSK256066				***** (IC_{50}:3.2 pM)	
Milrinone			*** (IC_{50}:56 ± 12 nM)		
Pimobendan			** (IC_{50}:0.32 μM)		
Rolipram				*	
Sildenafil					*
Sildenafil Citrate					**** (IC_{50}:3.6 nM)
Vardenafil HCl Trihydrate		** (IC_{50}:180 nM)			***** (IC_{50}:0.7 nM)
Vinpocetine	* (Ki:14 ± 2 μM)				

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3817 Sildenafil

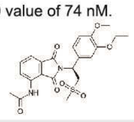
Sildenafil is a selective inhibitor of PDE5 with IC50 of 3.9 nM in human corpora cavernosa.



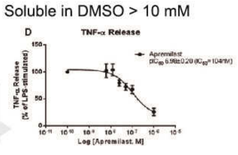
Size:25 mg,50 mg,500 mg
Soluble in DMSO

A4317 Apremilast (CC-10004)

Apremilast (CC10004) is a novel small-molecule inhibitor of PDE4 with an IC50 value of 74 nM.



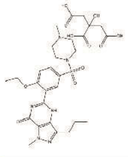
Size:5 mg,10mg,25 mg,50mg
Soluble in DMSO > 10 mM



Apremilast inhibits LPS-induced TNF-α release via cAMP.

A4321 Sildenafil Citrate

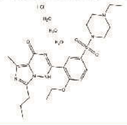
Sildenafil citrate is a potent inhibitor of cGMP-specific phosphodiesterase including PDE5 with IC50 values of 3.6 nM.



Size:25 mg,50 mg,500 mg
Soluble in DMSO > 10 mM

A4323 Vardenafil HCl Trihydrate

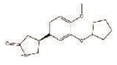
Vardenafil is a potent and selective inhibitor of PDE5 with IC50 value of 0.7 nM in enzymatic assay in vitro.



Size:10 mg,100 mg
Soluble in DMSO

A4328 Rolipram

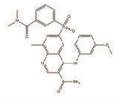
Rolipram is a PDE4-inhibitor and an anti-inflammatory agent.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A4331 GSK256066

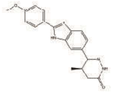
GSK256066 is a highly potent and selective inhibitor of phosphodiesterase 4 (PDE4) with IC50 value of 3.2 pM.



Size:10 mg,50 mg,200 mg
Limited solubility

A4340 Pimobendan

Pimobendan is a selective inhibitor of PDE3 with IC50 of 0.32 μM.



Size:5 mg,10 mg,50 mg,200mg
Soluble in DMSO > 10 mM

B1386 Milrinone

Milrinone is a selective inhibitor of PDE-3 with IC50 value of 56±12 nM.

Size:50 mg,100 mg
Soluble in DMSO > 10 mM

B2276 Vinpocetine

Vinpocetine is a selective inhibitor of PDE with Ki value of 14±2 μM.

Size:100 mg,200 mg,500 mg
Limited solubility

Phospholipase Inhibitors

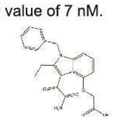
Potency Comparison

Inhibitors	Glycogen Phosphorylase (GP)	hnsPLA	Wip1 Phosphatase	cPLA2	iPLA2
CP-91149	** (IC_{50}:0.13 μM)				
Varespladib (LY315920)		**** (IC_{50}:7 nM)			
CAY10650		*** (IC_{50}:12 nM)			
GSK 2830371			**** (IC_{50}:6 nM)		
AACOCF3				* (IC_{50}:15 μM)	
PACOCF3				* (IC_{50}:45 μM)	* (IC_{50}:3.8 μM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4356 Varespladib (LY315920)

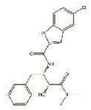
Varespladib (LY315920) is a potent and selective inhibitor of hnsPLA with IC50 value of 7 nM.



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A8403 CP-91149

CP-91149 is a selective inhibitor of GP with an IC50 value of 0.13 μM.



Size:5 mg,10 mg
Soluble in DMSO > 10 mM

PPAR Inhibitors/Activators

Potency Comparison

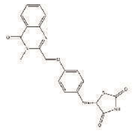
Inhibitors	PPARα	PPARβ	PPARγ	PPARδ
GSK3787				
T0070907				
GW9662	*** (IC_{50}:32 nM)		**** (IC_{50}:3.3 nM)	* (IC_{50}:2000 nM)
GSK 0660				** (IC_{50}:0.155 μM)
SR 202			* (IC_{50}: 140 μM)	
BADGE			*	

Activators	PPARα	PPARβ	PPARγ	PPARδ
Balaglitazone			*	
Clofibrate	* (EC_{50}:50 μM)			
GW0742		*		
GW501516		**** (EC_{50}:1.1 nM)		
L-165041				**** (Ki:6 nM)
Troglitazone			** (EC_{50}:555 nM)	
WY-14643 (Pirinixic Acid)	* (IC_{50}:10.11 μM)			

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3216 Balaglitazone

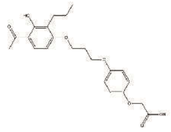
Balaglitazone is a partial agonist of peroxisome proliferator-activated receptor (PPARγ).



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO

A3536 L-165041

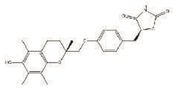
L-165041 is reported as a selective and potent agonist of PPARγ with Ki value of 6 nM.



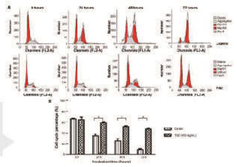
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A3893 Troglitazone

Troglitazone is a prototypical sarcomagenic PPARγ agonist with an EC50 of 550 nM for the human receptor and an EC50 of 780 nm for the mouse receptor.



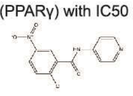
Size:10 mg,50 mg
Soluble in DMSO > 10 mM



TGZ induces cell cycle arrest at the G0/1 phase in SiHa cells.

A4301 T0070907

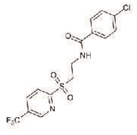
T0070907 is a selective antagonist of peroxisome proliferator-activated receptor γ (PPARγ) with IC50 value of 1 nM.



Size:10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A4303 GSK3787

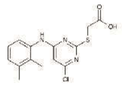
GSK3787 is a novel and irreversible antagonist of the peroxisome proliferator-activated receptor.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A4305 WY-14643 (Pirinixic Acid)

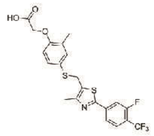
WY-14643 (Pirinixic Acid) is a potent peroxisome proliferator and activator of PPARα with EC50 of 1.5 μM.



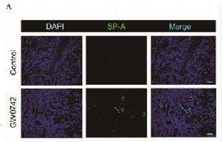
Size:50 mg,250 mg
Soluble in DMSO > 10 mM

A4307 GW0742

GW0742 is a synthetic, potent and selective PPARδ/β agonist with EC50 value of 1.1 nM.



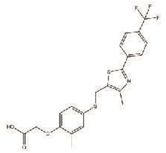
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



Effect of GW0742 on the expression of SP-A.

A4309 GW501516

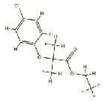
GW501516 is subtype-selective small-molecule agonist of peroxisome proliferator-activated receptor δ (PPARδ) with Ki value of 1.1 nM.



Size:50 mg
Soluble in DMSO

B3610 Clofibrate

Clofibrate is a ligand for peroxisome proliferator-activated receptor alpha (PPARα), and may enhance the conversion of very-low-density lipoprotein (VLDL) to low-density lipoprotein (LDL), decreasing the production of hepatic VLDL, inhibiting cholesterol production, and increasing fecal excretion of neutral sterols.

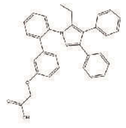


Size:5 g,10 g
Soluble in DMSO > 10 mM

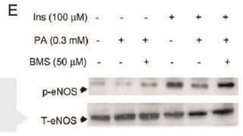
Lipid Metabolism Inhibitor

B7794 BMS 309403

BMS309403 is specifically designed to target FABP4 with a Ki value less than 2 nM.



Size:5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM



BMS309403 prevents the impaired eNOS phosphorylation.

SCD Inhibitors

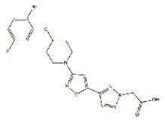
Potency Comparison

Inhibitors	SCD1	SCD1 (human)	SCD1 (rat)	SCD1 (mouse)
A939572	*** (IC_{50}:37 nM)			
MK-8245		**** (IC_{50}:1 nM)	**** (IC_{50}:3 nM)	**** (IC_{50}:3 nM)
MK-8245 Trifluoroacetate		**** (IC_{50}:1 nM)	**** (IC_{50}:3 nM)	**** (IC_{50}:3 nM)

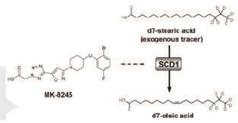
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4345 MK-8245

MK-8245 is a potent and liver-selective inhibitor of stearoyl-CoA desaturase (SCD) with IC50 value of 1 nM.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

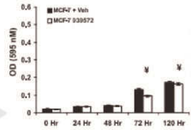


Inhibition effect of MK-8245 on the SCD1 enzyme.

B3607 A939572

A939572 is a potent and orally bioavailable inhibitor of stearoyl-CoA desaturase 1 (SCD1) with IC50 value of 37 nM.

Size:10 mg,50mg
Soluble in DMSO



A939572 represses SCD-1 activity and cell growth.

SGLT Inhibitors

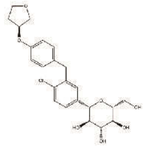
Potency Comparison

Inhibitors	SGLT1	SGLT2
Canagliflozin		**** (IC_{50}:4.4/3.7/2 nM)
Dapagliflozin		***** (EC_{50}:1.1 nM)
Empagliflozin (BI 10773)		**** (IC_{50}:3.1 nM)
PF-04971729		*
LX-4211	*	*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4601 Empagliflozin (BI 10773)

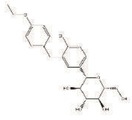
Empagliflozin is a selective inhibitor of SGLT-2 with IC50 value of 3.1 nM.



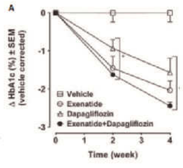
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A5854 Dapagliflozin

Dapagliflozin is a potent, selective Renal Sodium-Dependent Glucose Cotransporter 2 (SGLT2) inhibitor with IC50 1.1±0.06 nM for hSGLT2.



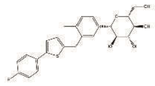
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



Effect of Dapagliflozin on HbA1c change in diabetic ob/ob mice.

A8333 Canagliflozin

Canagliflozin is a novel, potent, and highly selective sodium glucose co-transporter (SGLT) 2 inhibitor and inhibit the Na^+-mediated 14C-AMG intakes in CHO-hSGLT2, CHO-rat SGLT2 and CHO-mouse SGLT2 with IC50 values of 4.4, 3.7 and 2.0 nM, respectively.

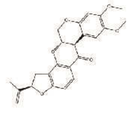


Size:100 mg,500 mg
Soluble in DMSO > 10 mM

Oxidative Phosphorylation Inhibitor

B5462 Rotenone

Rotenone is an inhibitor of the mitochondrial complex I electron transport chain with IC50 value of 1.7 - 2.2 μM.



Size:50 mg
Soluble in DMSO > 10 mM

Transferase Inhibitors

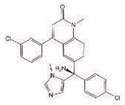
Potency Comparison

Inhibitors	FTase	DGAT-1	COMT	NAMPT	PNMT	Transglutaminase	GGT
A922500		*** (IC_{50}:7-24 nM)					
LB42708	***** (IC_{50}:0.8 nM)						
Lonafarnib	**** (IC_{50}:1.9 nM)						
PF-04620110		*** (IC_{50}:19 nM)					
Tolcapone			*** (IC_{50}:36 nM)				
Cystamine dihydrochloride						*	
FK866 (APO866)				***** (IC_{50}:0.09 nM)			
GGsTop							* (Ki:0.17 mM)
GPP 78 hydrochloride				*			
LY 78335					*** (Ki:0.09 μM)		
Tipifarnib (Zarnestra)	***** (IC_{50}:0.6 nM)						

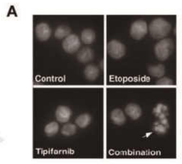
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4227 Tipifarnib (Zarnestra)

Tipifarnib (Zarnestra) is a potent and specific inhibitor of farnesyltransferase (FTase) with IC50 of 0.6 nM.



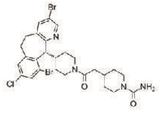
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



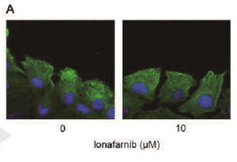
Tipifarnib enhances induction of apoptosis in AML cell lines.

A4379 Lonafarnib

Lonafarnib is an inhibitor of farnesyl transferase (FT) with IC50 values of 1.9, 2.8, 5.2 and 10-100 nM for H-Ras, N-Ras, K-Ras and Rheb, respectively.



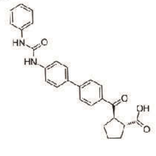
Size:5 mg,10 mg,100 mg,200 mg
Soluble in DMSO > 10 mM



Effect of lonafarnib on centrosome reorientation.

A4382 A922500

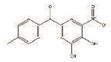
A922500 is a potent, selective and orally bioavailable inhibitor of DGAT-1 with IC50 values of 7 nM and 24 nM for human and mouse DGAT-1, respectively.



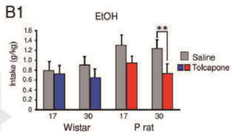
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

A4383 Tolcapone

Tolcapone is a novel, reversible and orally-bioavailable small-molecule catechol-O-methyltransferase (COMT) inhibitor used as an adjunct to levodopa therapy for the treatment of Parkinson's disease (PD).



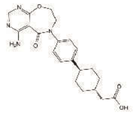
Size:10 mg,50 mg
Soluble in DMSO > 10 mM



Tolcapone suppresses ethanol intake and drinking behavior.

A4384 PF-04620110

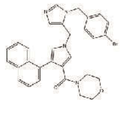
PF-04620110 is a potent and selective inhibitor of DGAT-1 with IC50 value of 19 nM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

B3703 LB42708

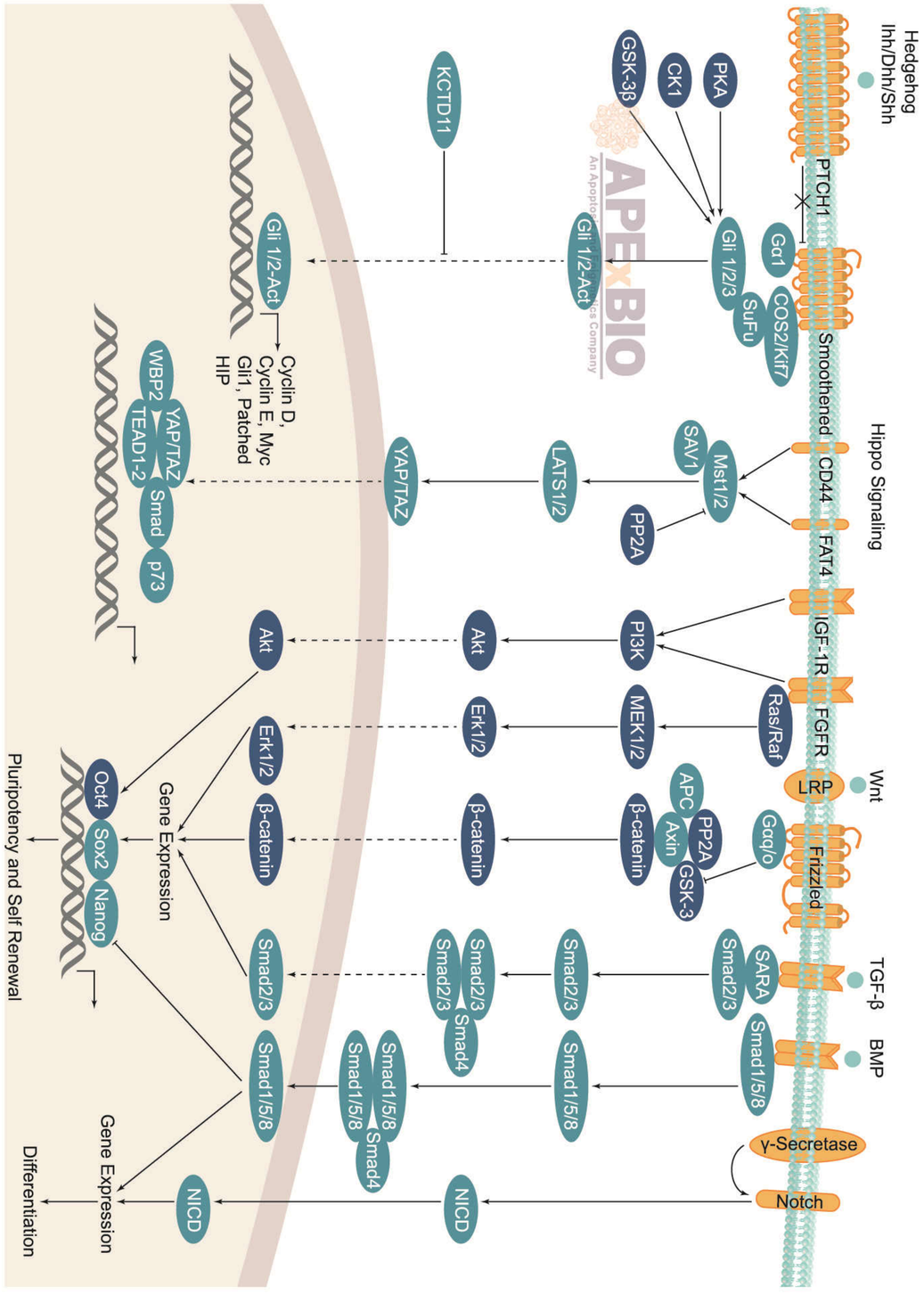
LB42708 is a selective inhibitor of farnesyltransferase (FTase) with IC50 values of 0.8, 1.2 and 2.0 nM for H-Ras, N-Ras and K-Ras4B, respectively.



Size:5 mg,10 mg
Soluble in DMSO > 10 mM

Metabolism

Stem Cell



Stem Cell

GSK-3 Inhibitors

See page 34 for the relevant product information.

CK1 Inhibitors

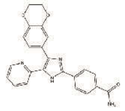
Potency Comparison

Inhibitors	CK1	CK1ε	CK1δ	CKIα
D4476	** (IC_{50}:0.3 μM)			
PF-670462		*** (IC_{50}:80 nM)	*** (IC_{50}:13 nM)	
LH846		* (IC_{50}:1.3 μM)	** (IC_{50}:290 nM)	* (IC_{50}:2.5 μM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3342 D4476

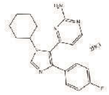
D4476 is a relatively specific and cell-permeant inhibitor of CK1 and ALK5 with respective IC50 values of 0.3 and 0.5 μM at 0.1 mM ATP in vitro.



Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

A3719 PF-670462

PF-670462 is a potent and selective inhibitor of CK1ε and CK1δ with IC50 values of 80 nM and 13 nM, respectively.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

EZH2 Inhibitors

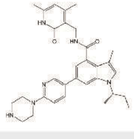
Potency Comparison

Inhibitors	EZH2
CPI-169	***** (IC_{50}: <1 nM)
GSK126	***** (Ki:93 pM)
GSK343	**** (IC_{50}:4 nM)
3-Deazaneplanocin,DZNep	*
3-Deazaneplanocin A (DZNep) hydrochloride	*** (IC_{50}:0.08-0.24 μM)
EPZ005687	*** (Ki:24 nM)
EI1	*** (IC_{50}:15 nM)

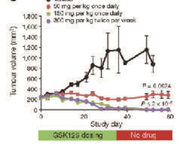
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3446 GSK126

GSK126 is an inhibitor of EZH2 with Ki value of 93 pM.



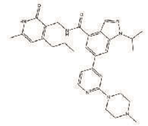
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO



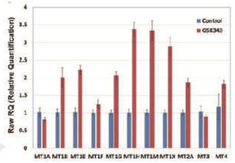
Effect of GSK126 on subcutaneous KARPAS-422 xenografts.

A3449 GSK343

GSK343 is a selective and SAM-competitive inhibitor of the histone lysine methyltransferase EZH2 with IC50 value of 4 nM.



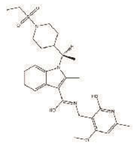
Size:5 mg,10 mg,25 mg
Limited solubility



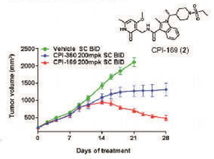
Effect of GSK343 on MT gene expression in HepG2 cells.

B4678 CPI-169

CPI-169 is a novel, small molecule and potent inhibitor of EZH2 with an IC50 value of < 1 nM for PRC2.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO



Impact of CPI-169 on tumor growth.

Hedgehog Inhibitors

Potency Comparison

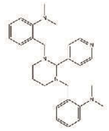
Inhibitors	Hedgehog	Sonic Hedgehog
Cyclopamine	**** (IC_{50}:3 nM)	
GANT61		*** (IC_{50}:20 nM)
GDC-0449 (Vismodegib)	*	
PF-5274857	*	
SANT-1	*	
AY 9944 dihydrochloride	*	
AZ 12080282 dihydrochloride	*** (IC_{50}: <12 nM)	
Jervine	** (IC_{50}:500 - 700 nM)	*
Ciliobrevin A		* (IC_{50}: 7 μM)
HPI 1	*	

Inhibitors	Hedgehog	Sonic hedgehog
Purmorphamine	*	
20(S)-Hydroxycholesterol	*	

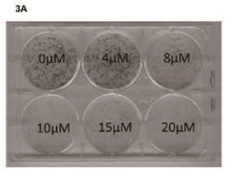
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1615 GANT61

GANT61 is an antagonist of GLI with IC50 value of 5 μM for GLI-induced transcription.



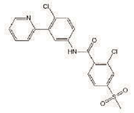
Size:5 mg,25 mg,100 mg
Limited solubility



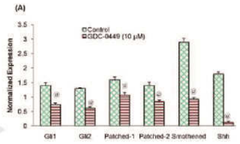
Inhibitory effects of GANT61 on the viability of cancer cells.

A3021 GDC-0449 (Vismodegib)

GDC-0449 (Vismodegib) is a potent, novel and specific inhibitor of hedgehog with IC50 of 3 nM and also inhibitor of P-gp with IC50 of 3.0 μM.



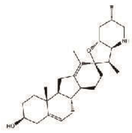
Size:10 mg,50 mg,200 mg,500 mg
Soluble in DMSO > 10 mM



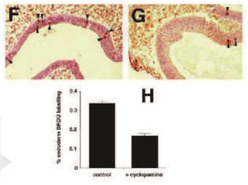
GDC-0449 reduces SHH signaling pathway activity.

A8340 Cyclopamine

Cyclopamine is a naturally occurring Hedgehog specific small molecule signaling steroidal alkaloid inhibitor with EC50 value of 10.57 μM.



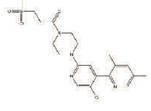
Size:5 mg,10 mg,25 mg
Limited solubility



Cyclopamine affects cell proliferation in stomach endoderm.

A8500 PF-5274857

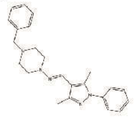
PF-5274857 is a potent and selective antagonist of Smoothened (Smo) with IC50 and Ki values of 5.8 nM and 4.6 nM, respectively.



Size:5 mg
Soluble in DMSO > 10 mM

A8659 SANT-1

SANT-1 is a inhibitor of Smoothened (Smo) with Kd of 1.2 nM and IC50 of 20 nM.

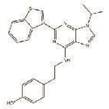


Size:10 mg,50 mg
Soluble in DMSO > 10 mM

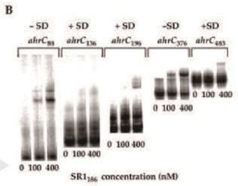
HSC Inhibitors

A8224 StemRegenin 1 (SR1)

StemRegenin 1 is an inhibitor of AhR with IC50 of 127 nM.



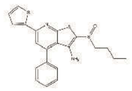
Size:10 mg,50 mg,100 mg,200 mg
Soluble in DMSO > 10 mM



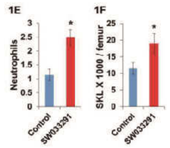
Binding assays of wild-type and truncated SR1/ahrC RNA pairs.

A8709 SW033291

SW033291 is a potent inhibitor of 15-PGDH enzyme with IC50 value of 1.5 nM and dissociation constant Ki app value of 0.1 nM.



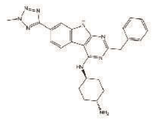
Size:5 mg,25 mg
Soluble in DMSO



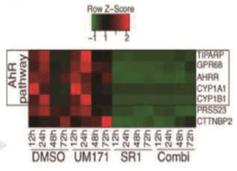
Biological effects of 15-PGDH inhibition in mice.

A8950 UM 171

UM 171 is a selective agonist of human hematopoietic stem cell self-renewal.



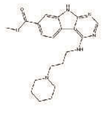
Size:5 mg,25 mg
Soluble in DMSO



Summary of UM171 effect on cell expansion and differentiation.

A8952 UM 729

UM 729 is a small molecule enhancer of AhR antagonists.

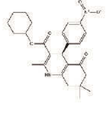


Size:5 mg,25 mg,100 mg
Soluble in DMSO

Notch Inhibitor

B3083 FLI-06

FLI-06 is a novel inhibitor of Notch signaling with EC50 value of 2.3 μM.



Size:10 mg,25 mg
Soluble in DMSO > 10 mM

Stem Cell

Smoothened Inhibitors / Activators

Potency Comparison

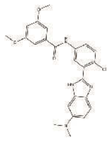
Inhibitors	Smoothened
HhAntag	*
LDE225 (NVP-LDE225,Erismodegib)	**** (IC_{50}:mouse 1.3 nM, human 2.5 nm)
LDE225 Diphosphate	*
BMS-833923	**** (IC_{50}:5.8 nM)
M 25	**** (IC_{50}:5 nM)
SMANT hydrochloride	* (IC_{50}:1.1 μM)
MRT 10	** (IC_{50}:0.5 μM)
PF-04449913	**** (IC_{50}:5 nM)

Activators	Smoothened
Purmorphamine	* (IC_{50}:1.5 μM)
GSA 10	* (EC_{50}:1.2 μM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3460 HhAntag

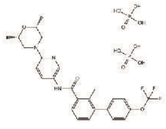
HhAntag is a GLI1-mediated transcription inhibitor with IC50 value from ~2 μM to >30 μM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

A3543 LDE225 Diphosphate

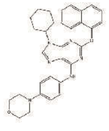
LDE225 is a potent and selective smoothened antagonist with IC50 value of 1.3 and 2.5 nM for mouse and human,respectively.



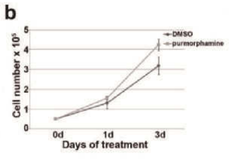
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

A8228 Purmorphamine

Purmorphamine is a blocker of BODIPY-cyclopamine binding to Smo with IC50 of ~ 1.5 μM and also is an inducer of osteoblast differentiation with EC50 of 1 μM.



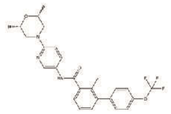
Size:5 mg,25 mg
Limited solubility



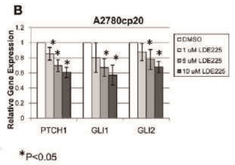
Purmorphamine affects HH patheway activity.

B2266 LDE225 (NVP-LDE225,Erismodegib)

LDE225 is a potent and selective inhibitor of smoothened antagonist with IC50 values of 1.3nM in mouse and 2.5nM in human, respectively.



Size:5 mg,10 mg,50 mg,100 mg, 200 mg
Soluble in DMSO > 10 mM



LDE225 reduces HH pathway activity.

Wnt/β-catenin Inhibitors

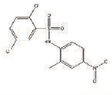
Potency Comparison

Inhibitors	Wnt Signaling	Porcn
FH535	*	
ICG 001	* (IC_{50}:3 μM)	
IWP-L6		***** (EC_{50}:0.5 nM)
IWR-1-endo	** (IC_{50}:180 nM)	
KY 02111	*	
LGK-974		***** (IC_{50}:1 nM)
WAY-262611	*	
Windorphen	*	
Wnt-C59		***** (IC_{50}:74 pM)
Cardionogen 1	*** (EC_{50}:23 nM)	
IWP-2		*** (IC_{50}:27 nM)
JW 67	* (IC_{50}:1.17 μM)	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3413 FH535

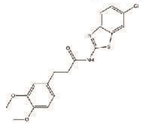
FH535 is a small molecule inhibitor of Wnt/B-catenin with IC50 values of 15.4μM, 10.9μM, 9.3μM, respectively in LCSC, Huh7, PLC cell lines.



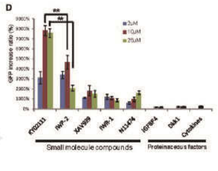
Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8213 KY 02111

KY 02111 is a promoter of differentiation of hPSCs to cardiomyocytes and inhibitor of Wnt signaling.



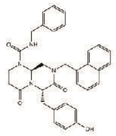
Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



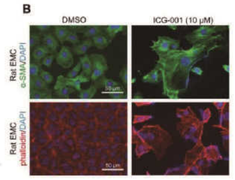
KY 02111 Is a Canonical WNT Signaling Inhibitor.

A8217 ICG 001

ICG-001 is an antagonist of Wnt/β-catenin/TCF-mediated transcription and specifically binds to element-binding protein (CBP) with IC50 of 3 μM.



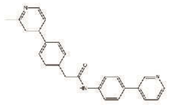
Size:5 mg,10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



IHC analysis of epicardial cells treated with ICG-001.

A8685 Wnt-C59

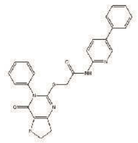
Wnt-C59 is a selective inhibitor of Wnt signaling with IC50 value of 74 pM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

B2305 IWP-L6

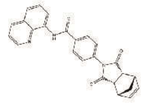
IWP-L6 is an inhibitor of Porcupine with IC50 value of 0.5 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B2306 IWR-1-endo

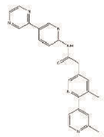
IWR-1-endo is a small molecule inhibitor of Wnt Response with IC50 value of 180 nM.



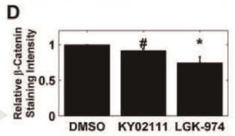
Size:10 mg,25 mg
Limited solubility

B2307 LGK-974

LGK-974 is a potent and specific small-molecule inhibitor of Porcupine (PORCN) with IC50 value of 1 nM.



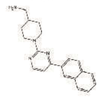
Size:5 mg,50 mg
Soluble in DMSO > 10 mM



Transient Wnt inhibition results in decrease of β-catenin.

B4818 WAY-262611

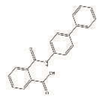
WAY-262611 is a Wnt pathway activator, which selectively inhibits Dkk1 with no GSK-3β inhibition.



Size:10 mg,50 mg
Soluble in DMSO

B5626 Kartogenin

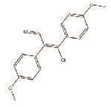
Kartogenin is an activator of the smad4/smad5 pathway, which promotes differentiation of human mesenchymal stems cells into chondrocytes with EC50 value of 100 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B5977 Windorphen

Windorphen is a Wnt inhibitor that selectively abrogates the Wnt signaling for ventral development.

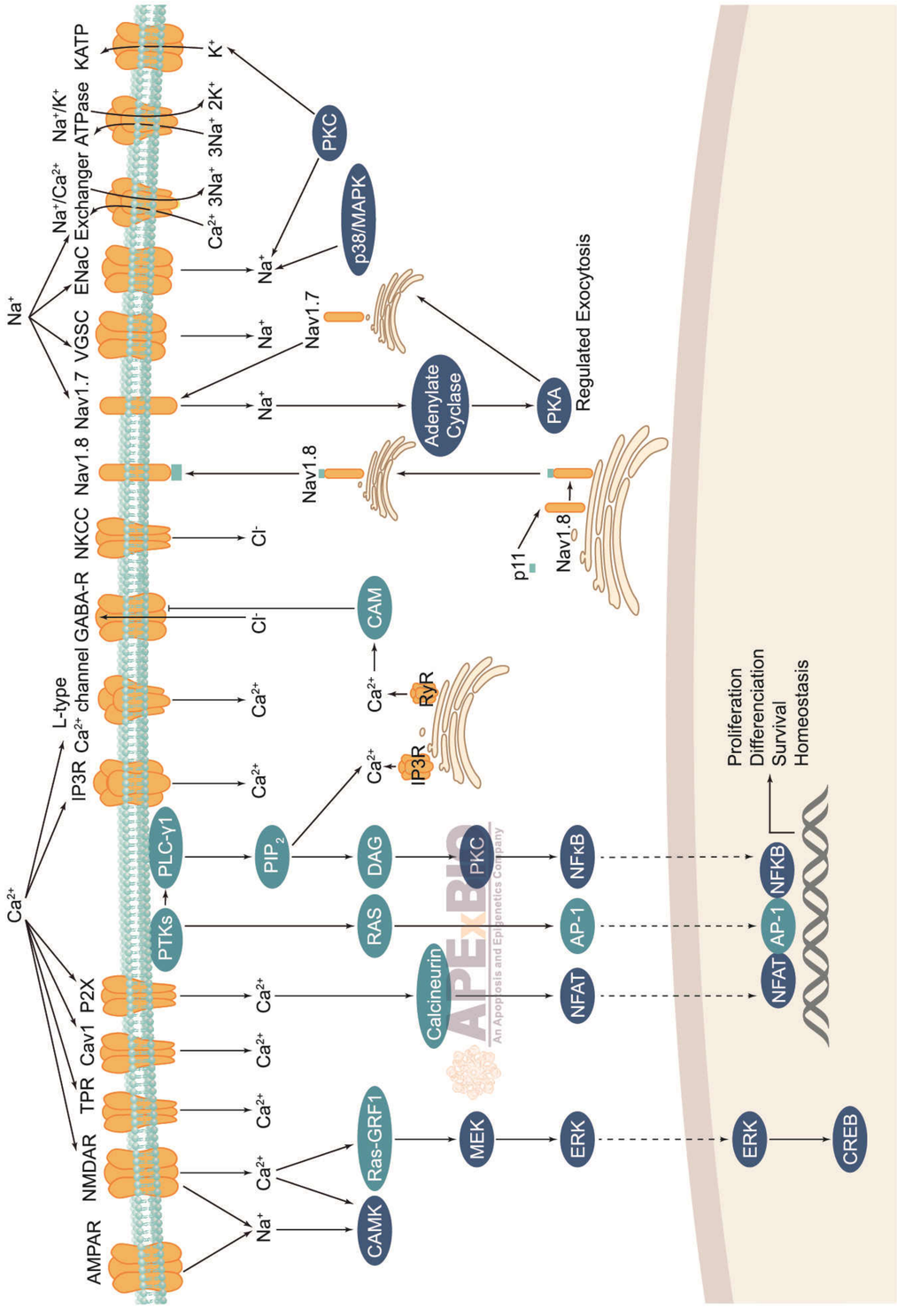


Size:5mg,25mg
Soluble in DMSO

Stem Cell

Stem Cell

Membrane Transporter/Ion Channel



GSK-3 Inhibitors

See page 34 for the relevant product information.

ATPase Inhibitors/Activators

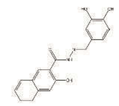
Potency Comparison

Inhibitors	ATPase	GTPase	H^+/K^+-ATPase	Na^+/K^+ ATPase	Ca^{2+}-ATPase
(-)-Blebbistatin	** (IC_{50}:2 μM)				
BHQ					*
Brefeldin A	*** (IC_{50}:0.2 μM)				
BTB06584	*				
Digoxin				*	
Dynasore		* (IC_{50}:15 μM)			
Sodium Orthovanadate	*				
TAK-438					
SCH 28080			**** (IC_{50}:19 nM)		
Sodium Orthovanadate	*		**** (IC_{50}:20 nM)		

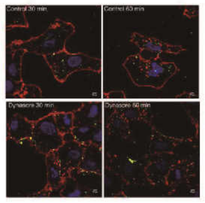
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1605 Dynasore

Dynasore is a noncompetitive inhibitor of GTPases with the IC50 value of 15 μM.



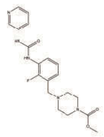
Size:10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



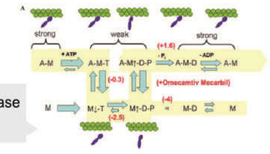
Dynasore inhibits uptake of eGFP-VLPs (microscopy).

A8349 Omecamtiv Mecarbil

Omecamtiv mecarbil (CK-1827452) is a specific activator of cardiac myosin activator and a clinical drug for left ventricular systolic heart failure.



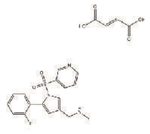
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



Effect of CK-1827452 on the ATPase mechanism of β-cardiac HMM.

A2308 TAK-438

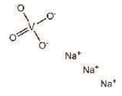
TAK-438 is a potassium-competitive acid blocker (P-CAB) of H^+/K^+-ATPase with IC50 value of 19 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A8524 Sodium Orthovanadate

Sodium orthovanadate is a commonly used general inhibitor for PTP (protein tyrosine phosphatases), alkaline phosphatase (ALP) and ATPase.



Size:5 g,25 g
Limited solubility

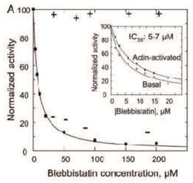
B1387 (-)-Blebbistatin

(-)-Blebbistatin is a cell-permeable non-muscle myosin II ATPases inhibitor with an IC50 range of 2 μM.

Size:10 mg,25 mg
Soluble in DMSO > 10 mM

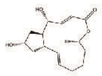
Product Citation:
Exp Cell Res. (2016)
PMID: 27693494

Blebbistatin inhibits Dictyostelium myosin II.



B1400 Brefeldin A

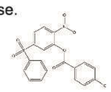
Brefeldin A (BFA) is an inhibitor of ATPase with IC50 value of 0.2 μM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

B3041 BTB06584

BTB06584 is an IF1-dependent selective inhibitor of the mitochondrial F1Fo-ATPase.



Size:10 mg,25 mg
Soluble in DMSO > 10 mM

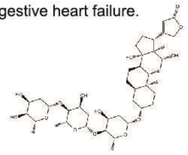
B6648 BHQ

BHQ is a selective inhibitor of endoplasmic reticulum Ca^{2+}-ATPase.

Size:100 mg
Soluble in DMSO > 10 mM

B7684 Digoxin

Digoxin is a sodium-potassium pump inhibitor, which is used to treat congestive heart failure.



Size:50 mg,100mg
Soluble in DMSO > 10 mM

AMPAR Inhibitor

A3176 Ampalex

Ampalex (Ampakine CX516) is an ampakine and nootropic that acts as an AMPA receptor positive allosteric modulator as a treatment for Alzheimer's disease, schizophrenia and mild cognitive impairment (MCI).

Size:100 mg
DMSO

Calcium Channel Inhibitors

Potency Comparison

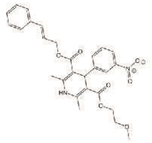
Inhibitors	Calcium Channel	Voltage-sensitive Ca^{2+} channels	L-type Calcium Channel	N-type Calcium Channel	T-type Calcium Channel	IP3 Receptor	Ryanodine Receptor	Two-pore Channels
2-APB						* (IC_{50}:42 μM)		
Amlodipine Besylate			*					
Cilnidipine			*	*				
Dehydroepian-drosterone					*			
Isradipine	*							
Lacidipine			*					
Nilvadipine	*							
Nisoldipine			**** (IC_{50}:10 nM)					
Ranolazine 2HCl	*							
Strontium Ranelate	*							
Verapamil HCl			*					
Zonisamide					*			
SR 33805 Oxalate			***** (Kd:20 pM)					
Ruthenium Red		*						
Zonisamide Sodium					*			

Activators	Calcium Channel	Voltage-sensitive Ca^{2+} channels	L-type calcium channel	N-type calcium channel	T-type calcium channel	IP3 receptor	Ryanodine receptor	Two-pore channels
Strontium Ranelate	* (IC_{50}:0.5 mM)							
(S)-(-)-Bay K 8644			*					
NAADP tetrasodium salt							*	*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1447 Cilnidipine

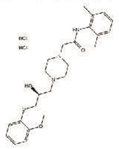
Cilnidipine is a potent dual L- and N-type calcium channel blocker that displays antihypertensive, sympatholytic and neuroprotective activity.



Size:25 mg,100 mg
Soluble in DMSO > 10 mM

A5300 Ranolazine 2HCl

Ranolazine 2HCl acts as a partial fatty acid oxidation inhibitor.



Size:100 mg
Soluble in DMSO > 10 mM

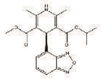
A5354 Zonisamide

Zonisamide blocks voltage-sensitive Na^+ and T-type Ca^{2+} channels, stimulates BKCa channels, modulates GABA, glutamate and monoamine neurotransmission.

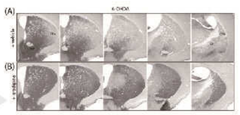
Size:10 mg,200 mg,500 mg
Soluble in DMSO > 10 mM

A8453 Isradipine (Dynacirc)

Isradipine, a calcium channel blocker of the dihydropyridine class,which is usually prescribed for the treatment of high blood pressure in order to reduce the risk of stroke and heart attack.



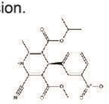
Size:10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM



Isradipine pre-treatment reduced 6-OHDA induced neurotoxicity.

A8455 Nilvadipine

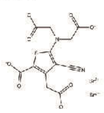
Nilvadipine (FR34235) is a calcium channel blocker for treatment of hypertension.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8526 Strontium Ranelate

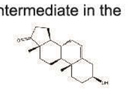
Strontium Ranelate is a bone metabolism modulator that inhibits bone resorption while maintaining bone formation, commonly used as an antiosteoporotic.



Size:10 mg
Limited solubility

B1375 Dehydroepiandrosterone (DHEA)

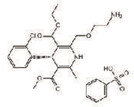
DHEA is an important endogenous steroid hormone and functions as a metabolic intermediate in the biosynthesis of estrogen and androgen.



Size:10 g,25 g
Soluble in DMSO and in ethanol

B1411 Amlodipine Besylate

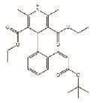
Amlodipine besylate is a long-acting Ca2+ channel blocker that reduce blood pressure as an antihypertensive drugs.



Size:50 mg
Soluble in DMSO > 10 mM

B1417 Lacidipine

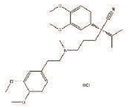
Lacidipine (Lacipil, Motens) is a L-type calcium channel blocker.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B1867 Verapamil HCl

Verapamil is an L-type calcium channel blocker of thephenylalkylamine class.



Size:1 g,5 g
Soluble in DMSO > 10 mM

B1989 Nisoldipine

Nisoldipine is a calcium channel blocker belonging to the dihydropyridines class, specific for L-type Cav1.2 with IC50 of 10 nM.

Size:200 mg,500 mg
Soluble in DMSO > 10 mM

B6643 2-APB

2-APB is an antagonist of Ins(1,4,5) P3-induced Ca2+ release with IC50 value of 42 μM.

Size:10 mg,50 mg
Soluble in DMSO > 10 mM

CFTR Inhibitors/Activators

Potency Comparison

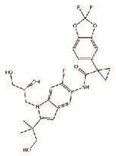
Inhibitors	CFTR
GlyH-101	* (Ki:1.4 μM)
PTC124 (Ataluren)	*** G542X-CFTR (IC_{50}:0.1 μM)
IOWH-032	* (Ki:1.01 μM)
CFTRinh-172	** (Ki:300 nM)
PPQ-102	*** (IC_{50}:90 nM)

Activators	CFTR
Ivacaftor (VX-770)	*** F508del-CFTR(IC_{50}:25 nM) ;G551D-CFTR(IC_{50}:100 nM)
VX-661	* F508 del CFTR
VX-809	*** F508 del CFTR(EC_{50}:0.1 μM)
Ivacaftor hydrate	*** F508del-CFTR(IC_{50}:25 nM) ;G551D-CFTR(IC_{50}:100 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A2664 VX-661

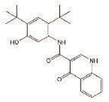
VX-661, one of the vertex derivatives, corrects F508del-CFTR trafficking and increases F508del-CFTR protein activity in vitro.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A5047 Ivacaftor (VX-770)

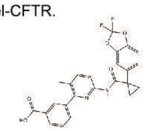
Ivacaftor (VX-770) is a potent and orally bioavailable small molecule potentiator of CFTR.



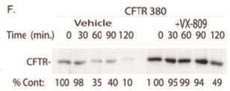
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A8351 VX-809

VX-809 is a CFTR corrector that partially restores the function of F508del-CFTR.



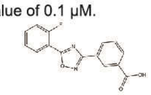
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



VX-809 stablizes N-terminal region of CFTR.

A8553 PTC124 (Ataluren)

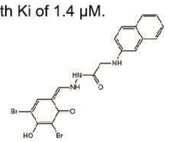
PTC124 (Ataluren) is a selective inhibitor of nonsense mutations with IC50 value of 0.1 μM.



Size:10 mg,25 mg,100 mg,200 mg
Soluble in DMSO > 10 mM

B1087 GlyH-101

GlyH-101 is a cell-permeable glycinyl hydrazone compound that blocks CFTR with Ki of 1.4 μM.



Size:10 mg,50 mg
Soluble in DMSO

NKCC Inhibitors

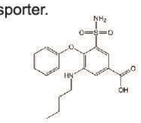
Potency Comparison

Inhibitors	NKCC1	NKCC2
Bumetanide	*	
Furosemide		*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1855 Bumetanide

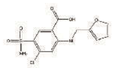
Bumetanide is a loop diuretic that inhibits the $Na^+/2Cl^-/K^+$ (NKCC) cotransporter.



Size:5 mg,100 mg
Soluble in DMSO > 10 mM

A8435 Furosemide

Furosemide is an inhibitor of $Na^+/2Cl^-/K^+$ cotransporter.



Size:50 mg
Soluble in DMSO > 10 mM

NMDA Receptor Inhibitors/Activators

Potency Comparison

Inhibitors	NMDA Receptor	NR2A-containing Receptors	NR2B-containing Receptors	NR2C-containing Receptors	NR2D-containing Receptors
(-)-MK 801	*** (Ki:30.5 nM)				
(+)-MK 801	*** (Ki:30.5 nM)				
(+)-MK 801 Maleate	*				
Flupirtine maleate	*				
MDL-29951	* (Ki:0.14 mM)				
PMPA (NMDA antagonist)		** (Ki:0.84 μM)	* (Ki:2.74 μM)	* (Ki:3.53 μM)	* (Ki:4.16 μM)
PPPA		** (Ki:0.13 μM)	** (Ki:0.47 μM)	* (Ki:1.10 μM)	* (Ki:3.86 μM)
CGS 19755	*				
LY 233053	**** (IC_{50}:7 nM)				
Conantokin-R	*** (IC_{50}:93 nM)				
TCN 237 dihydrochloride			***** (Ki:0.8 nM)		
Ifenprodil Tartrate	** (IC_{50}:0.3 μM)				

Activator	NMDA Receptor	NR2A-containing Receptors	NR2B-containing Receptors	NR2C-containing Receptors	NR2D-containing Receptors
NMDA (N-Methyl-D-aspartic acid)	*				

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

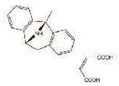
A3100 (+)-MK 801

(+)-MK 801 is a potent antagonist of NMDA with Ki value of 30.5 nM.

Size:10 mg,50 mg
Soluble in DMSO

A8896 (+)-MK 801 Maleate

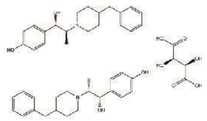
(+)-MK 801 Maleate is a potent antagonist of NMDA with Ki value of 30.6 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B1623 Ifenprodil Tartrate

Ifenprodil is an atypical noncompetitive antagonist at the NMDA receptor, it interacts with high affinity at a homogeneous population of NMDA receptors in neonatal rat forebrain with IC50 of 0.3 μM.



Size:50 mg
Soluble in DMSO > 10 mM

B1624 NMDA (N-Methyl-D-aspartic acid)

NMDA（N-Methyl-D-aspartic acid）is a specific agonist of NMDA receptor.

Size:50 mg
Soluble in DMSO > 10 mM

B1627 (-)-MK 801

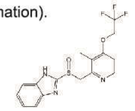
(+)-MK 801 is a potent antagonist of NMDA with Ki value of 30.5 nM.

Size:10 mg,50 mg
Soluble in DMSO > 10 mM

Proton Pump Inhibitor

A1229 Lansoprazole

Lansoprazole is a inhibitor for H+,K+-ATPase with IC50 = 6.3 μM and Inhibits gastric acid secretion (IC50 = 0.09 μM for histamine-induced acid formation).



Size:5 mg,100 mg
Soluble in DMSO > 10 mM

P-gp Inhibitors

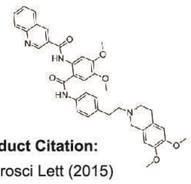
Potency Comparison

Inhibitors	P-gp
LY335979 (Zosuquidar 3HCL)	*** (Ki:60 nM)
Tariquidar	**** (Kd:5.1 nM)
Tariquidar methanesulfonate, hydrate	*
Zosuquidar	*** (Ki:60 nM)
Dofequidar	*
Dofequidar fumarate	*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

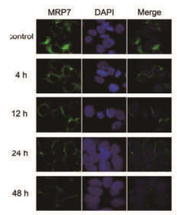
A8208 Tariquidar

Tariquidar (XR9576) is a potent and selective noncompetitive inhibitor of P-glycoprotein with Kd of 5.1 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

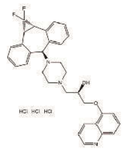
Product Citation:
Neurosci Lett (2015)
PMID: 25982326



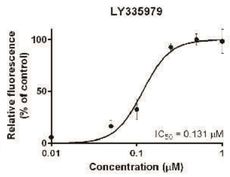
Treatment of Tariquidar downregulates MRP7.

A8549 LY335979 (Zosuquidar 3HCL)

LY335979 is a selective inhibitor of P-gp with IC50 value of 1.2 nM.



Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

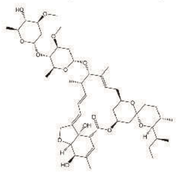


Effect of LY335979 on ABCB1-mediated efflux of HOE.

P2X Purinergic Receptor Inhibitor

A2813 Ivermectin

Ivermectin is a positive allosteric modulator of the α7 neuronal nicotinic acetylcholine receptor and the purinergic P2X4 receptor.



Size:100 mg
Soluble in DMSO > 10 mM

Potassium Channel Inhibitors

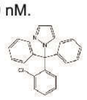
Potency Comparison

Inhibitors	Potassium Channel	Kir6 (K_{ATP})	Kir1.1	Kir3.1/3.2	Kir3.1/3.4	IK Channel	KV1.3	KV1.5
Amiodarone HCl	*							
Azimilide						*		
Dronedarone	*							
Glipizide		*						
JNJ 303	**** (IC_{50}:64 nM)							
Psora 4							***** (EC_{50}:3 nM)	***** (IC_{50} :7.7 nM)
Repaglinide		***** (Kd:0.42 nM)						
TRAM-34		****				**** (IC_{50}:20 nM)		
Gliquidone		**** (IC_{50}:27.2 nM)						
Nateglinide		*						
Tertiapin LQ			***** (Kd:1.1 nM)	*** (Kd:274 nM)	*** (Kd:361 nM)			
PNU 37883 HCl		**** (Kd:65 nM)						

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1888 TRAM-34

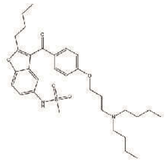
TRAM-34 is a highly selective inhibitor of KCa3.1 channel with IC50 value of 20 nM.



Size:5 mg,25 mg,100 mg
Limited solubility

A3374 Dronedarone

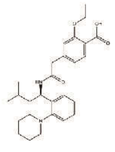
Dronedarone (Multaq) is a drug used for the treatment of atrial fibrillation and atrial flutter in patients who have suffered cardiac arrhythmias.



Size:10 mg,200 mg,1 g
Soluble in DMSO

A5316 Repaglinide

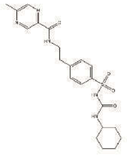
Repaglinide is a Kir6 (KATP) channel blocker that binds with high affinity for SUR1 when co-expressed with Kir6.2 (Kd = 0.42 nM).



Size:100 mg
Soluble in DMSO > 10 mM

A8438 Glipizide

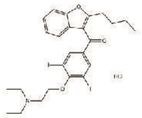
Glipizide is an ATP-dependent K^+ channels blocker in pancreatic β cells and brain GABA containing neurons resulting in insulin release.



Size:500 mg,1 g
Soluble in DMSO > 10 mM

B1389 Amiodarone HCl

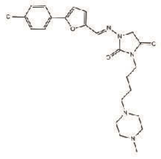
Amiodarone HCl is an anti-arrhythmic drug.



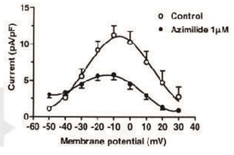
Size:50 mg,100 mg
Soluble in DMSO > 10 mM

B4849 Azimilide

Azimilide is a class III antiarrhythmic drug.



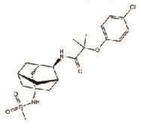
Size:5 mg,10 mg,50 mg
Soluble in DMSO



Voltage-dependence of HERG channel modulation by Azimilide.

B7529 JNJ 303

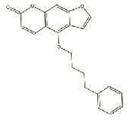
JNJ 303 is a potent blocker of the slow component of delayed rectifier potassium current (IKs) with an IC50 value of 0.064 μM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B7659 Psora 4

Psora 4 is a Kv1.3 blocker with EC50:3 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

Sodium Channel Inhibitors

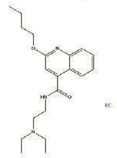
Potency Comparison

Inhibitors	Sodium Channel	Voltage-gated	NaV1.1	NaV1.2	NaV1.3	NaV1.4	NaV1.5	NaV1.6	NaV1.7	NaV1.8
Bupivacaine HCl		*								
Dibucaine HCl	*									
Ibutilide Fumarate	*									
Procainamide HCl	*									
Riluzole	*									
Procaine HCl	* (IC_{50}:60 μM)									
Lamotrigine	*									
TC-N 1752					***** (IC_{50}:0.3 nM)	***** (IC_{50}:0.4 nM)	***** (IC_{50}:1.1 nM)		***** (IC_{50}:0.17 nM)	
PF 04885614			* (IC_{50}:11 μM)	* (IC_{50}:16 μM)			* (IC_{50}: 27 μM)	** (IC_{50}: 4.2 μM)	** (IC_{50}: 7.0 μM)	**** (IC_{50}:53 nM)
Co 102862		*								
Huwentoxin IV				*** (IC_{50}:150 nM)	*** (IC_{50}:338 nM)				**** (IC_{50}:26 nM)	
Jingzhaotoxin III							*** (IC_{50}:348 nM)			
Phrixotoxin 3				***** (IC_{50}:0.6 nM)	**** (IC_{50}:42 nM)		**** (IC_{50}:72 nM)			

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A8407 Dibucaine (Cinchocaine) HCl

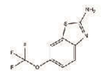
Dibucaine (Cinchocaine) HCl is an amide local anesthetic.



Size:10 mg
Soluble in DMSO > 10 mM

A8513 Riluzole

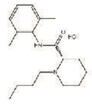
Riluzole is a novelsodium channel protein inhibitor with IC50 value of 51 μM in primary cultures of rat cortical neurons.



Size:100 mg,500 mg
Soluble in DMSO > 10 mM

B1420 Bupivacaine HCl

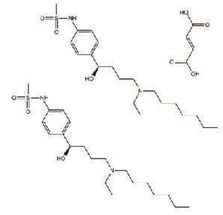
Bupivacaine HCl is an effective local anesthetic agent.



Size:50 mg
Soluble in DMSO > 10 mM

B2278 Ibutilide Fumarate

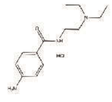
Ibutilide Fumarate is a Class III antiarrhythmic agent that is indicated for acute cardioconversion of atrial fibrillation and atrial flutter of a recent onset to sinus rhythm.



Size:10 mg,100 mg
Soluble in DMSO > 10 mM

B4798 Procainamide HCl

Procainamide HCl is a DNA methyltransferase inhibitor for the treatment of cardiac arrhythmias.



Size:50 mg,200 mg
Soluble in DMSO > 10 mM

TRP Channel Inhibitors/Activators

Potency Comparison

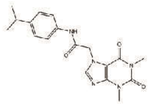
Inhibitors	TRPA1 Channel	TRPM8	TRPC6
HC-030031	* (IC_{50}:4.9 mM)		
Icilin		*	
TRPC6 inhibitor			*
AP 18	* (3.1 μM)		
RQ-00203078		**** (IC_{50}:8.3 nM)	
A 967079	** (IC_{50}:67 nM)		

Activator	TRPA1 channel	TRPM8	TRPC6
WS 3		* (IC_{50}:3.7 mM)	

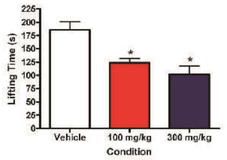
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

B2100 HC-030031

HC-030031 is a selective antagonist of transient receptor potential ankyrin subfamily, member 1(TRPA1) with IC50 value of 4.9 μM.



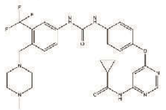
Size:10 mg,50 mg
Soluble in DMSO > 10 mM



Effect of HC-030031 on AITC-induced nocifensive behaviors.

B7223 WS 3

WS 3 is an agonist of TRPM8 receptor with EC50 value of 3.7 μM.



Size:10 mg,50 mg,200 mg
Soluble in DMSO

TRPV1 Inhibitors

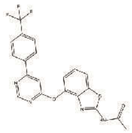
Potency Comparison

Inhibitors	TRPV1	hTRPV1	rTRPV1
AMG-517	***** (IC_{50}:0.62 nM-1.3 nM)		
SB705498		**** (IC_{50}:3 nM)	
A 784168	*** (IC_{50}:25 nM)		
AMG 9810		*** (IC_{50}:24.5±15.7 nM)	** (IC_{50}:85.6 ±39.4 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1174 AMG-517

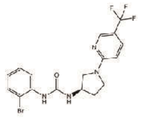
AMG-517 is an antagonist of TRPV1 channel with IC50 value of 1-2 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

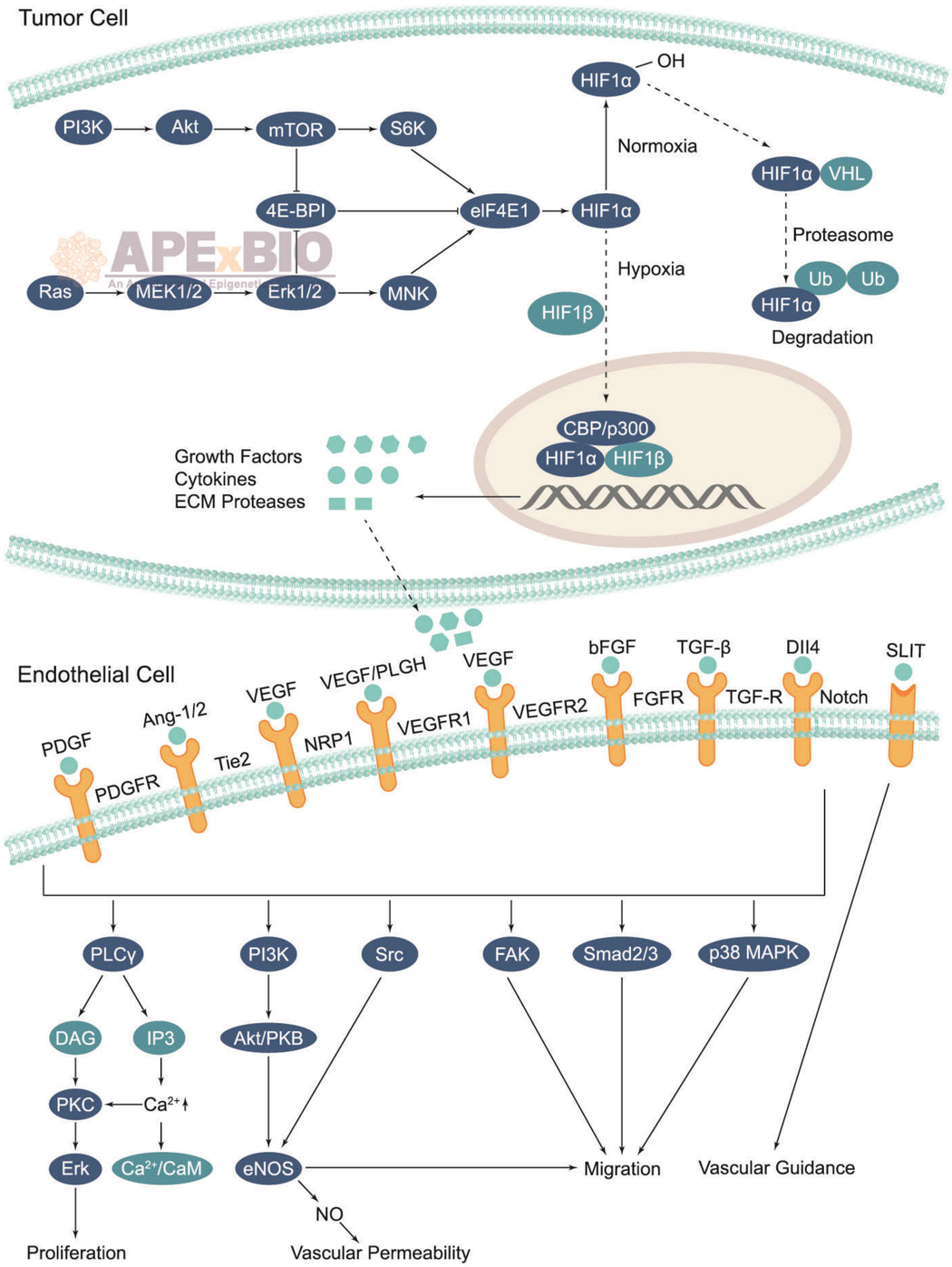
A8519 SB705498

SB705498 is an antagonist of TRPV1 with IC50 values of 3 nM, 0.1 nM and 6 nM for hTRPV1, antagonizes capsaicin, acid and heat activation of TRPV1,respectively.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

Angiogenesis



HIF Inhibitors

See page 21 for the relevant product information.

BTK Inhibitors

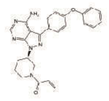
Potency Comparison

Inhibitors	BTK
AVL-292	***** (IC_{50}:0.5 nM)
CGI-1746	**** (IC_{50}:1.9 nM)
PCI-32765 (Ibrutinib)	***** (IC_{50}:0.5 nM)
RN486	**** (IC_{50}:4 nM)
QL47	**** (IC_{50}:7 nM)
Btk inhibitor 1 hydrochloride	*
Btk inhibitor 1 R enantiomer	*
PCI-32765 Racemate	***** (IC_{50}:0.5 nM)
Btk inhibitor 1	*
PCI 29732	**** (IC_{50}:8.2 nM)

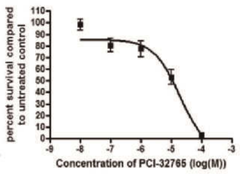
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3001 PCI-32765 (Ibrutinib)

PCI-32765 (Ibrutinib) is a potent and highly selective inhibitor of Btk with IC50 of 0.5 nM, modestly potent to Bmx, CSK, FGR, BRK, HCK, less potent to EGFR, Yes, ErbB2, JAK3, etc.



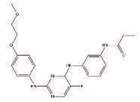
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



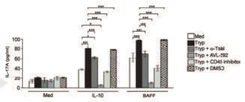
PCI-32765 induces selective cytotoxicity in CLL cells.

A3206 AVL-292

AVL-292 is an orally active, potent irreversible small molecule inhibitor of BTK with IC50 of 0.5 nM and EC50 of 8 nM.



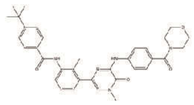
Size:10 mg,50 mg
Soluble in DMSO > 10 mM



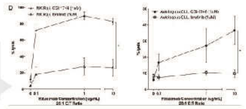
Primary human B cells stimulated with T. cruzi produce IL-17.

A3302 CGI-1746

CGI-1746 is a selective and potent inhibitor of Bruton's tyrosine kinase (BTK) with IC50 value of 1.9 nM.



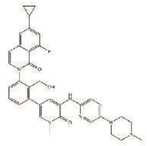
Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



Ibrutinib antagonizes antibody-dependent NK–mediated cytotoxicity.

A8636 RN486

RN486 is a reversible inhibitor of Btk with IC50 value of 4.0 nM.

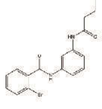


Size:5 mg,25 mg
Soluble in DMSO

PAR1 Inhibitor

A8229 ML161

ML161 is a selective inhibitor of PAR1 with IC50 value of 0.26 μM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

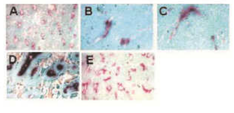
VDA Inhibitor

A8233 DMXAA (Vadimezan)

DMXAA (Vadimezan, AS-1404) is a selective inhibitor of DT-diaphorase with Ki50 and IC50 value of 20 μM and 62.5 μM, respectively。

Size:5 mg,25 mg,100 mg
Limited solubility

Product Citation:
PloS pathogens. (2015)
PMID: 26646986



Induction of endothelial cell apoptosis by DMXAA.

Integrin Inhibitors

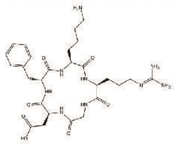
Potency Comparison

Inhibitors	Pan-Integrin	α1β1 integrin	α2β1 integrin	α4β1 integrin	α4β7 integrin	αvβ1 integrin	αvβ3 integrin	αvβ5 integrin	αvβ6 integrin	αvβ8 integrin	α9β1 integrin
Cilengitide							**** (IC_{50}:4.1 nM)	*** (IC_{50}:79 nM)			
Cyclo (-RGDfK)							*				
RGD Peptides	*										
A 286982	*** (IC_{50}:44 nM)										
BIO 1211				**** (IC_{50}:4 nM)							
BIO 5192			* (IC_{50}:1053 nM)	**** (IC_{50}:1.8 nM)							** (IC_{50}:138 nM)
CWHM-12						**** (IC_{50}:1.8 nM)	***** (IC_{50}:0.8 nM)	*** (IC_{50}:61 nM)	**** (IC_{50}:1.5 nM)	***** (IC_{50}:0.2 nM)	
Echistatin, α1 isoform							***** (Ki:0.27 nM)				
Obtustatin		***** (IC_{50}:0.8 nM)									
P11							*** (IC_{50}:25.72 nM)				
TCS 2314				**** (IC_{50}:4.4 nM)							
TR-14035				*** (IC_{50}:87 nM)	**** (IC_{50}:7 nM)						

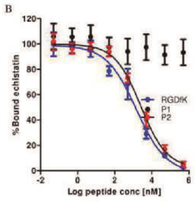
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A8164 Cyclo (-RGDfK)

Cyclo (-RGDfK) is a potent and selective inhibitor of the αvβ3 integrin.



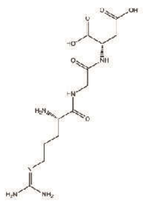
Size:5 mg,25 mg,100 mg
Soluble in Water



Effect of Cyclo (-RGDfK) on human prostate cancer DU145 cells.

B3708 RGD (Arg-Gly-Asp) Peptides

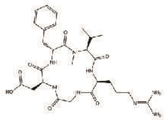
RGD is an inhibitor of integrin-ligand interactions.



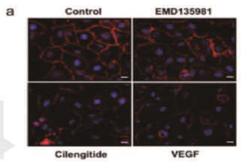
Size:10mg
Limited solubility

A8660 Cilengitide

Cilengitide is a small-molecule inhibitor of integrins with IC50 values of 2.3 nM and 37 nM for αvβ3 and αvβ5, respectively.



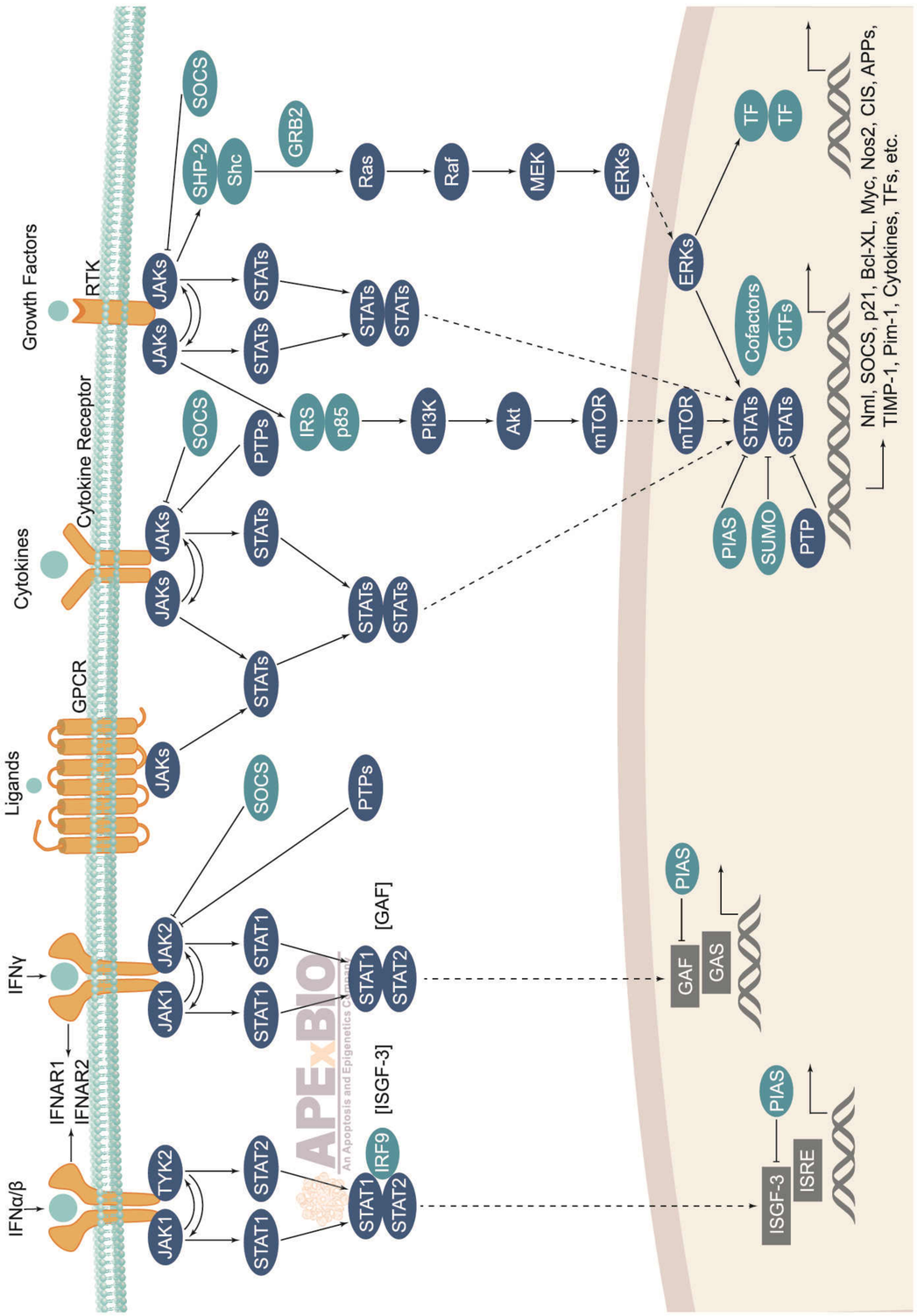
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM



Cilengitide induces VE-cadherin loss form cellular junctions.

Angiogenesis

JAK/STAT Signaling



EGFR Inhibitors

See page 55 for the relevant product information.

JAK Inhibitors

See page 25 for the relevant product information.

Pim Inhibitors

See page 28 for the relevant product information.

STAT Inhibitors

Potency Comparison

	STAT	STAT1	STAT3
NSC 74859			* (IC_{50}:86 μM)
Stattic			* (IC_{50}:2.282-3.481 μM)
Cryptotanshinone			* (IC_{50}:4.6 μM)
Fludarabine Phosphate (Fludara)		*	
Fludarabine		*	
SD 1008			*
Cucurbitacin I			*
WP1066			* (IC_{50}:2.43 μM)
Corylifol A			** (IC_{50}:0.8 μM)
HO-3867			*
Niclosamide	* (IC_{50}:0.7 μM)		

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

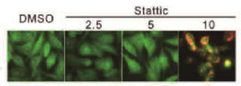
A2224 Stattic

Stattic is a small molecule inhibitor of STAT3 with IC50 values of 2.562 ± 0.409 μM, 3.481 ± 0.953 μM, 2.282 ± 0.423 μM and 2.648 ± 0.542 μM, respectively, in UM-SCC-17B, OSC-19, Cal33 and UM-SCC-22B cell lines.

Size:25 mg,100 mg
Soluble in DMSO > 10 mM

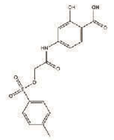
Product Citation:
Caner Res. (2016) PMID: 27197172

Stattic blocks activation of STAT3 and downstream targets.



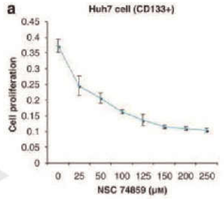
A8338 NSC 74859 (S3I-201)

NSC 74859 is a selective inhibitor of STAT3 with IC50 value of 86 μM.

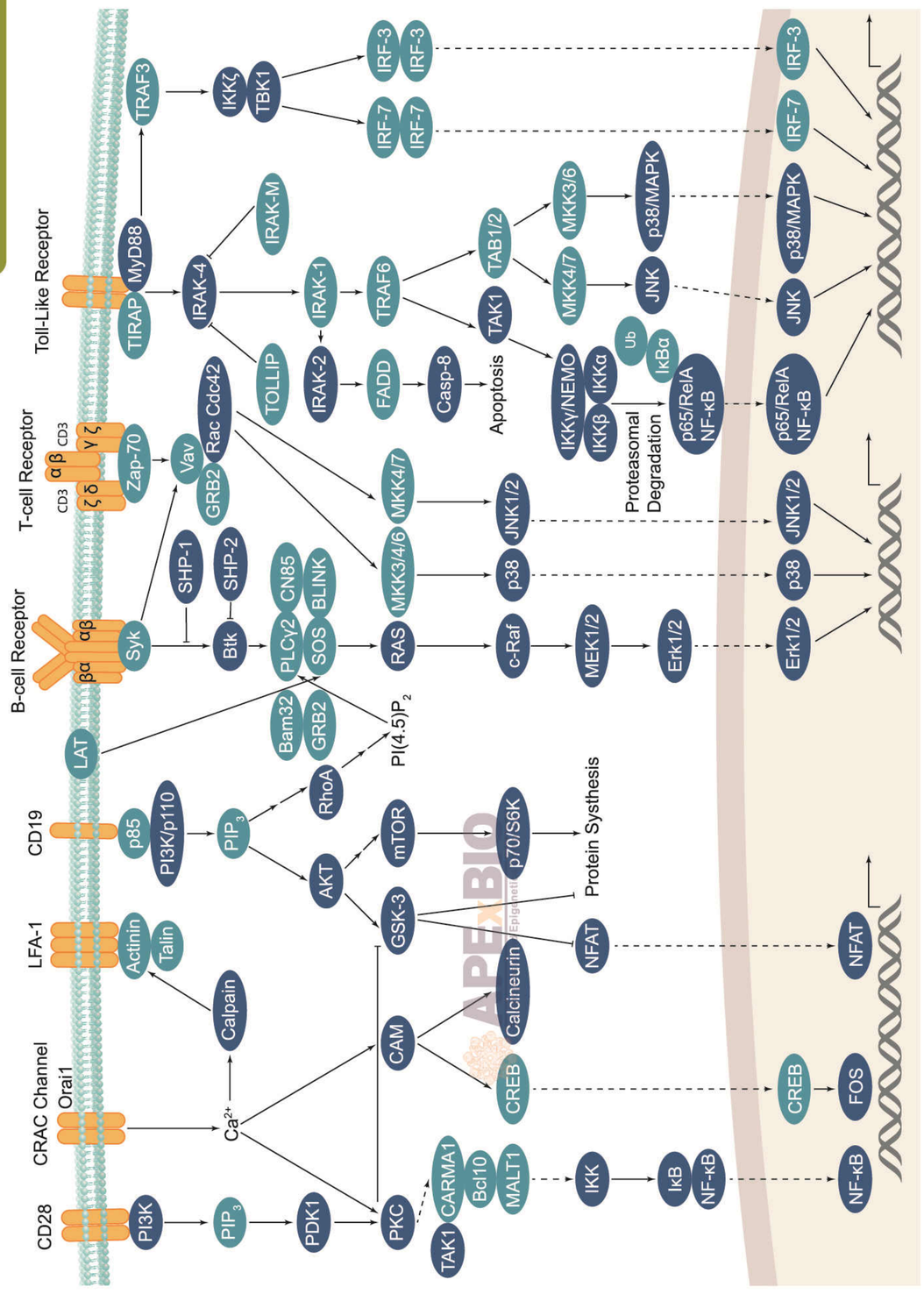


Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

MTT assay for NSC 74859 inhibition of cell proliferation in CD133+.



Immunology/Inflammation



5-Lipoxygenase Inhibitors

Potency Comparison

Inhibitors	5-Lipoxygenase
Malotilate	*
Zileuton	** (IC_{50}:0.5/0.3 μM)
Zileuton sodium	** (IC_{50}:0.5/0.3 μM)
U-73122	*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A2486 Malotilate

Malotilateis a novel hepatotrophic drug, which can improve protein metabolism and stimulate hepatocyte regeneration.

Size:5 mg,100 mg
Soluble in DMSO > 10 mM

A5384 Zileuton

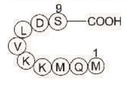
Zileuton inhibits 5-hydroxyeicosatetraenoic aicd synthesis in rat basophilic leukemia cell and polymorphonuclear leukocytes with IC50 value of 0.5 and 0.3 μM, respectively.

Size:100 mg
Soluble in DMSO > 10 mM

Immunology/Inflammation Peptides

A1008 Anti-Inflammatory Peptide 1

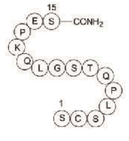
Anti-Inflammatory Peptide 1 belongs to the group of synthetic oligopeptides corresponding to a region of high amino-acid sequence similarity between uteroglobin and lipocortin I.



Size:5 mg,10 mg,25 mg
Soluble in Water

A1024 LEP (116-130) (mouse)

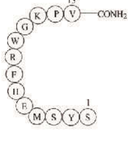
Leptin is an adipocyte-derived hormone that acts as a major regulator for food intake and energy homeostasis.



Size:1 mg,5 mg,10 mg,25 mg
Soluble to 1 mg/ml in sterile water

A1025 a-MSH, amide

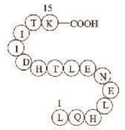
a-MSH, amide is a peptide with the sequence Ac-Ser-Tyr-Ser-Met-Glu-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH2, and the increase in MSH will cause a darkening in humans.



Size:5 mg,10 mg,25 mg

A1051 Alpha-1 antitrypsin fragment

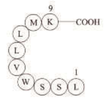
Alpha-1 antitrypsin (A1AT) is a protease inhibitor belonging to the serpin superfamily.



Size:1 mg,5 mg,10 mg,25 mg

A1052 Alpha-1 antitrypsin fragment 235-243[Homo sapiens]/[Papio hamadryas]/[Cercopithecus aethiops]

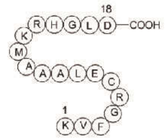
Alpha-1 antitrypsin (A1AT) is a protease inhibitor belonging to the serpin superfamily.



Size:1 mg,5 mg,10 mg,25 mg

A1065 Egg white lysozyme (19-36) [Gallus gallus]

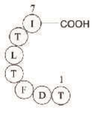
Egg white lysozyme (19-36) [Gallus gallus] is used in promoting the dissolution of cell wall.



Size:1 mg,5 mg,10 mg,25 mg

A1070 IgG light chain variable region [Homo sapiens]/IgM/kappa antibody [Mus musculus]

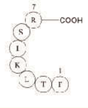
IgG has four forms, provides the majority of antibody-based immunity against invading pathogens.



Size:1 mg,5 mg,10 mg,25 mg

A1071 Immunoglobulin light chain variable region fragment [Homo sapiens]

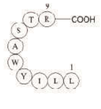
Immunoglobulin light chain variable region fragment [Homo sapiens] is a fragment (Phe-Thr-Leu-Lys-Ile-Ser-Arg) on the variable region of the human immunoglobulin light chain.



Size:1 mg,5 mg,10 mg,25 mg

A1072 Immunoglobulin light chain variable region fragment [Homo sapiens]/[Mus musculus]

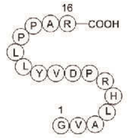
Immunoglobulin light chain variable region fragment [Homo sapiens]/[Mus musculus] is a fragment (Leu-Leu-Ile-Tyr-Trp-Ala-Ser-Thr-Arg) on the variable region of the human and mouse immunoglobulin light chain.



Size:1 mg,5 mg,10 mg,25 mg

A1073 Immunoglobulin M heavy chain (IGHM) fragment [Homo sapiens]

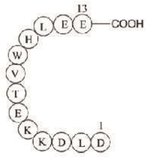
Immunoglobulin M heavy chain (IGHM) fragment [Homo sapiens] is a fragment (Gly-Val-Ala-Leu-His-Arg-Pro-Asp-Val-Tyr-Leu-Leu-Pro-Pro-Ala-Arg) on the the human immunoglobulin micro heavy chain. Immunoglobulins (Ig) are the antigen recognition molecules of B cells.



Size:1 mg,5 mg,10 mg,25 mg

A1081 MHC class II antigen (45-57) [Homo sapiens]

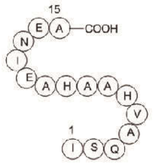
MHC class II antigen (45-57) [Homo sapiens],(C83H126N20O27S), a peptide with the sequence H2N-Asp-Leu-Asp-Lys-Lys-Glu-Thr-Val-Trp-His-Leu-Glu- Glu-OH, MW= 1868.07.



Size:1 mg,5 mg,10 mg,25 mg

A1082 Ovalbumin (324-338) [Gallus gallus] /[Coturnix coturnix]

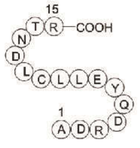
Ovalbumin (324-338) triggers immuno response.



Size:1 mg,5 mg,10 mg,25 mg

A1093 Transferrin fragment

Transferrin is the principal ironbinding protein in animal serum and is analogous in its iron-binding site and properties to lactoferrin1.



Size:1 mg,5 mg,10 mg,25 mg

Papain Inhibitor

A1035 Papain Inhibitor

Papain Inhibitor peptide (C19H29N7O6), is a peptide with the sequence H-Gly-Gly-Tyr-Arg-OH, MW= 451.4.

Size:25 mg

TLR Inhibitors/Activators

Potency Comparison

Inhibitors	TLR4	TLR7	TLR8
TAK-242	**** (IC_{50}:1.1-11 nM)		
TAK-242 S enantiomer	*		
Toll-like receptor modulator	*		

Activators	TLR4	TLR7	TLR8
Resiquimod (R-848)		*	*
Imiquimod hydrochloride		*	
Imiquimod maleate		*	

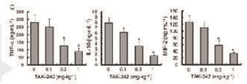
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3850 TAK-242

TAK-242 is a potent TLR 4 signaling inhibitor with IC50 of 1.1 to 11 nM.

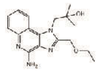
Size:5mg,10 mg,50mg,100 mg
Soluble in DMSO

TAK-242 protects mice in an E.coli-induced sepsis model.



B1054 Resiquimod (R-848)

Resiquimod (R-848, S-27609) is a modifier of immune response.



Size:10 mg,20mg,25mg,50 mg, 100mg
Soluble in DMSO > 10 mM

IκB/IKK Inhibitors

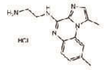
Potency Comparison

Inhibitors	IκB/IKK
Bardoxolone methyl	*
Andrographolide	*
Bay 11-7085	* (IC_{50}:10 μM)
BMS-345541	*
MLN120B	* (IC_{50}:20 μM)
MRT67307	*
Piceatannol	* (IC_{50}:25 μM)
SC-514	* (IC_{50}:3-12 μM)
Tanshinone IIA	*
WS6	*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

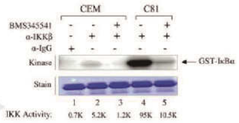
A3248 BMS-345541

BMS-345541 is a highly selective inhibitor of IKK-1 and IKK-2 with IC50 values of 4 μM and 0.3 μM, respectively.



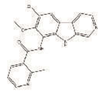
Size:5 mg,10 mg,50 mg
Soluble in DMSO

BMS-345541 inhibition of IKKβ in HTLV-1 infected cell.



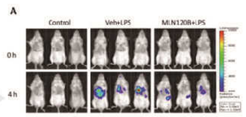
A3628 MLN120B

MLN120B is a potent and effective inhibitor of IκB kinase beta subunit (IKKβ) with IC50 value of 20 μM.



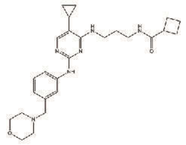
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO

Effect of IKK2 inhibition on NF-κB induction in vivo.



A3635 MRT67307

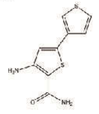
MRT67307 is an inhibitor for TBK1, IKKε , MARK1-4 and NUAK1 with IC50 value of 19, 160, 27-52 and 230 nM , respectively.



Size:5mg,10 mg,50 mg
Soluble in DMSO > 10 mM

B1585 SC-514

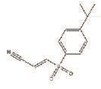
SC-514 is a cell-permeable and selective inhibitor of IKK-2 with IC50 value of 3-12μM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B3033 Bay 11-7085

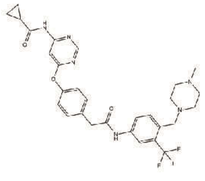
Bay 11-7085 is an irreversible inhibitor of TNFα-induced IκBα phosphorylation with an IC50 value of 10 μM.



Size:10 mg,25 mg
Soluble in DMSO > 10 mM

B4880 WS6

WS6 is a small-molecule inducer of β cell proliferation with EC50 value of 0.28 μM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

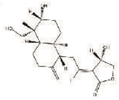
N1846 Tanshinone IIA

Tanshinone IIA displays antioxidant and anti-inflammatory properties.

Size:20 mg
Soluble in DMSO > 10 mM

N1855 Andrographolide

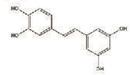
Andrographolide is an irreversible antagonist of NF-κB with IC50 value of 11.0 ± 0.28 μg/ml for α-glucosidase and 11.3 ± 0.29 μg/ml for α-amylase.



Size:20mg
Soluble in DMSO > 10 mM

N2031 Piceatannol

Piceatannol is an anticancer agent with ED50 value of 25 μM in BJAB Burkitt-like lymphoma cells.



Size:20mg
Soluble in DMSO > 10 mM

KEAP1-Nrf2 Inhibitors

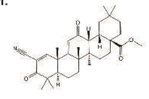
Potency Comparison

Inhibitors	Nrf2
Curcumin	* (IC_{50}:47 μM)
Bardoxolone	*
Dimethyl Fumarate	*
CDDO-EA	*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

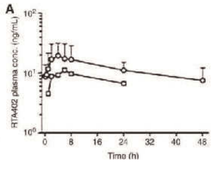
A3221 Bardoxolone methyl

Bardoxolone methyl is an activator of the KEAP1-Nrf2 pathway and also inhibits the pro-inflammatory transcription factor NF-kB with IC50 value of 1.5 nM.



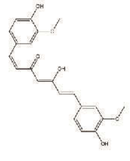
Size:50 mg,500 mg
Soluble in DMSO > 10 mM

Pharmacokinetics of bardoxolone methyl.



A3335 Curcumin

Curcumin is an inhibitor of tyrosinase with IC50 value of 47 μM.



Size:100 mg
Soluble in DMSO > 10 mM

NF-κB Inhibitors

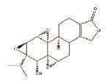
Potency Comparison

Inhibitors	NF-κB
Caffeic Acid Phenethyl Ester	*
JSH-23	* (IC_{50}:7.1 μM)
Triptolide	*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3891 Triptolide

Triptolide inhibits the expression of IL-2 in activated T cells and NF-κB mediated transcription activation.



Size:5 mg,10 mg,25 mg,1 g
Soluble in DMSO > 10 mM

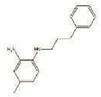
B1644 Caffeic Acid Phenethyl Ester

Caffeic acid phenethyl ester (CAPE) is an inhibitor of NF-κB activation.

Size:50 mg,200 mg
Soluble in DMSO > 10 mM

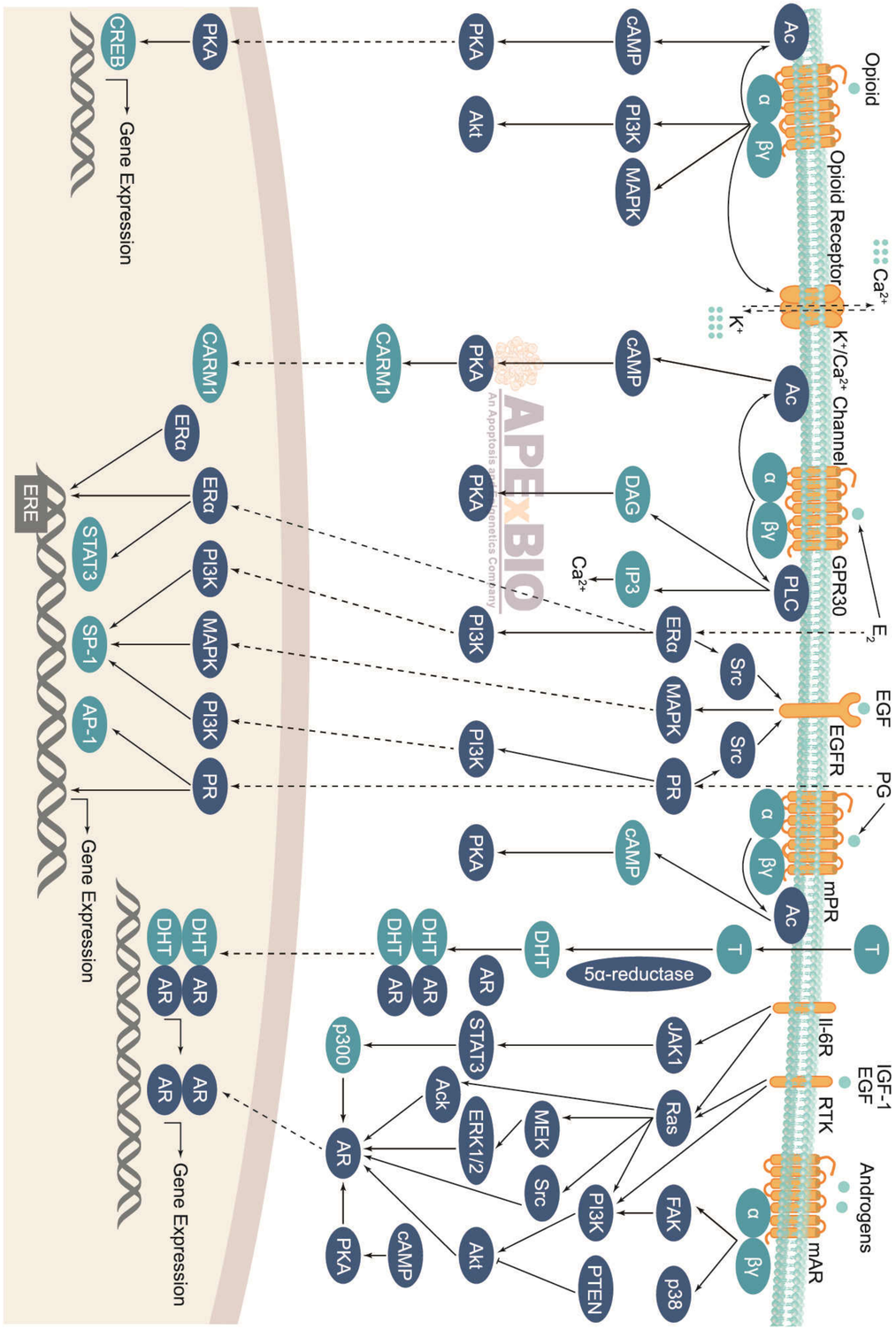
B1645 JSH-23

JSH-23 is an inhibitor of NF-κB transcriptional activity with IC50 value of 7.1 μM.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

Endocrinology/Hormones



Androgen Receptor Inhibitors/Activators

Potency Comparison

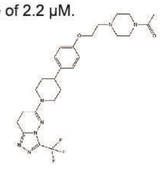
Inhibitors	Androgen Receptor
ARN-509	*** (IC_{50}:16 nM)
ASC-J9	*
AZD3514	* (Ki:2.2 μM)
Bicalutamide	** (IC_{50}:160 nM)
Epiandrosterone	*
MDV3100 (Enzalutamide)	*** (IC_{50}:36 nM)
ODM-201	*** (Ki:11 nM)
Spironolactone	*** (IC_{50}:77 nM)
TAK-700 (Orteronel)	*** (IC_{50}:38 nM)
Cyproterone Acetate	**** (IC_{50}:7.1 nM)
TOK-001	** (IC_{50}:384 nM)

Activators	Androgen Receptor
Andarine	**** (Ki:4 nM)
MK-2866 (GTx-024)	*
Cyproterone Acetate	* (EC_{50}:4 μM)
Cl-4AS-1	*** (IC_{50}:12 nM)
TFM-4AS-1	*** (IC_{50}:30 nM)
MK-0773	**** (IC_{50}:6.6 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1372 AZD3514

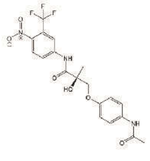
AZD3514 is a small-molecule downregulator of androgen receptor with Ki value of 2.2 μM.



Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A2150 Andarine

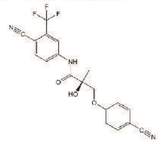
Andarine is a selective non-steroidal agonist of androgen receptor (AR) with Ki value of 4 nM.



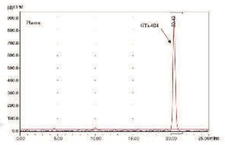
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A2961 MK-2866 (GTx-024)

MK-2866 (GTx-024) is a modulator of androgen receptor (AR) with ED50 value of 0.44 mg/day.



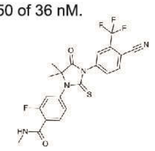
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



Radiochromatogram of pooled plasma from rats treated with GTx-024.

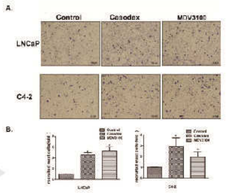
A3003 MDV3100 (Enzalutamide)

MDV3100 (Enzalutamide) is an antagonist of androgen-receptor (AR) with IC50 of 36 nM.



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

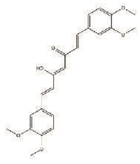
Product Citation:
J Steroid Biochem Mol Biol. (2016)
PMID: 27174722



MDV3100 induces prostate cancer cells recruiting more mast cells.

A3190 ASC-J9

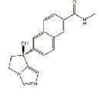
ASC-J9 is an enhancer of androgen receptor degradation.



Size:5 mg,10 mg,50 mg
Soluble in DMSO

A4326 TAK-700 (Orteronel)

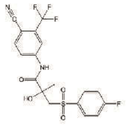
TAK-700 (Orteronel) is a potent and highly selective human 17,20-lyase inhibitor with IC50 of 38 nM, exhibits >1000-fold selectivity over other CYPs (e.g. 11-hydroxylase and CYP3A4).



Size:5 mg,50 mg
Soluble in DMSO > 10 mM

A5065 Bicalutamide

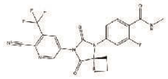
Bicalutamide is an active non-steroidal androgen receptor antagonist with IC50 value of 160 nM.



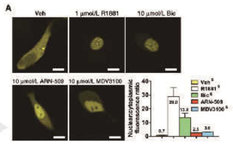
Size:100 mg
Soluble in DMSO > 10 mM

A8364 ARN-509

ARN-509 is a selective and competitive inhibitor of androgen receptor with an IC50 value of 16 nM.



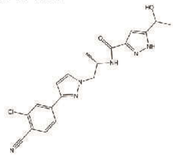
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



ARN-509 impairs AR nuclear localization and inhibits DNA binding.

A8452 ODM-201

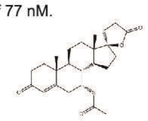
ODM-201 is a new-generation inhibitor of androgen receptor with Ki value of 11 nM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

B1378 Spironolactone

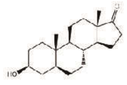
Spironolactone is a potent antagonist of the androgen receptor with IC50 of 77 nM.



Size:50 mg
Soluble in DMSO > 10 mM

B1505 Epiandrosterone

Epiandrosterone blocks L-type calcium channels of ventricular myocytes with an IC50 of 42 ± 6 M.



Size:1 g
Soluble in DMSO > 10 mM

Aromatase Inhibitors

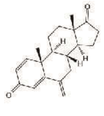
Potency Comparison

Inhibitors	Aromatase
Anastrozole	*** (IC_{50}:46 nM)
Exemestane	*** (IC_{50}:27 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1296 Exemestane

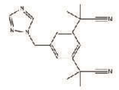
Exemestane is a novel selective and irreversible aromatase inhibitor with an IC50 value of 27 nM.



Size:10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

B1382 Anastrozole

Anastrozole (Arimidex,ZD1033) is a potent and selective inhibitor of aromatase with an IC50 value of 14.6 nM or 0.0043 μg/ml.



Size:10 mg,50 mg,200 mg,500 mg
Soluble in DMSO > 10 mM

Estrogen/Progestogen Receptor Inhibitors

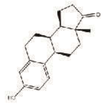
Potency Comparison

Inhibitors	Estrogen/Progestogen Receptor
Altrenogest	*
Equol	*
Erteberel (LY500307)	***** (IC_{50}:0.66 nM)
Estrone	*
Ethinyl Estradiol	*
Ethisterone	*
Hexestrol	*
Medroxyprogesterone acetate	*
Raloxifene HCl	**** (IC_{50}:2.9-5.7 nM)
Toremifene Citrate	*
XCT790	** (IC_{50}:0.27 μM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A8426 Estrone

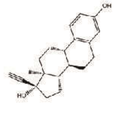
Estrone (E1; oestrone) is an estrogenic hormone secreted by the ovary as well as adipose tissue.



Size:50 mg
Soluble in DMSO > 10 mM

A8428 Ethinyl Estradiol

Ethinyl Estradiol is a synthetic analog of estradiol commonly used as an oral contraceptive, often in combination with a progestin.



Size:100 mg,500 mg
Soluble in DMSO > 10 mM

B1502 Ethisterone

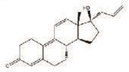
Ethisterone is a progestogen hormone being considered to treat prostate cancer.

Size:50 mg
Limited solubility

Endocrinology/Hormones

B1503 Altrenogest

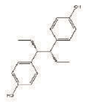
Altrenogest is a progestogen structurally related to veterinary steroid trenbolone.



Size:50 mg
Soluble in DMSO > 10 mM

B1509 Hexestrol

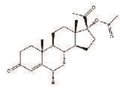
Hexestrol binds to ERα and ERβ with EC50 of 0.07 nM and 0.175 nM, respectively.



Size:200 mg
Soluble in DMSO > 10 mM

B1510 Medroxyprogesterone Acetate

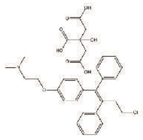
Medroxyprogesterone acetate (MPA) is a steroidal progestin, a synthetic variant of the human hormone progesterone.



Size:50 mg
Soluble in DMSO > 10 mM

B1513 Toremifene Citrate

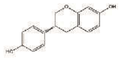
Toremifene citrate is an oral selective estrogen receptor modulator (SERM) which helps oppose the actions of estrogen in the body.



Size:100 mg
Soluble in DMSO > 10 mM

B1514 Equol

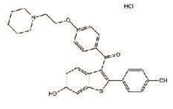
Equol is an isoflavan produced by intestinal bacteria in response to soy isoflavone intake in human.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

B1515 Raloxifene HCl

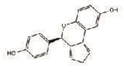
Raloxifene HCl（LY139481）is a potent and selective of estrogen receptor (ER) with the IC50 value of 2.9-5.7 nM.



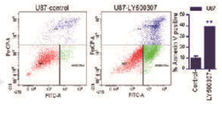
Size:50 mg,100 mg
Soluble in DMSO > 10 mM

B1518 Erteberel (LY500307)

Erteberel (LY500307) is a potent and selective ERβ (estrogen receptor beta) agonist (EC50 = 0.66 nM).



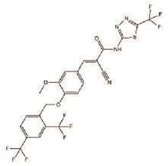
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



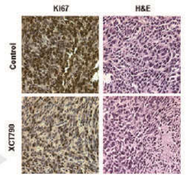
L500307 reduces proliferation and induces apoptosis in GBM cells.

B3238 XCT790

XCT790 is an inverse agonist of Estrogen-related receptor alpha (ERRα) with IC50 value of 0.37 μM.



Size:10 mg,50 mg
Limited solubility



XCT790 decreases H295R cells proliferation in vivo.

GnRH Activators

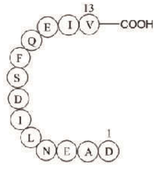
Potency Comparison

Activators	GnRH
GnRH Associated Peptide (GAP) (1-13), human	*
Leuprolide Acetate	*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1020 GnRH Associated Peptide (GAP) (1-13), human

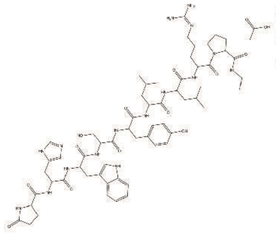
GnRH-associated peptide (GAP) was found to be a potent inhibitor of prolactin secretion and to stimulate the release of gonadotropins.



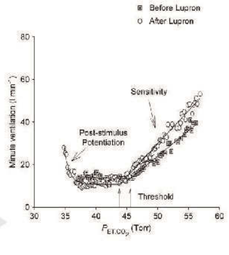
Size:1 mg,5 mg,10 mg,25 mg

A3551 Leuprolide Acetate

Leuprolide acetate acts as an agonist at pituitary GnRH receptors.



Size:5 mg,10 mg,25 mg,50 mg
Soluble to 0.50 mg/ml in sterile water



Effect of leuprolide acetate on the ventilatory response.

Opioid Receptor Inhibitors

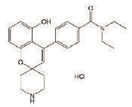
Potency Comparison

Inhibitors	Opioid Receptor	μ-opioid Receptor	κ-opioid Receptor	δ-opioid Receptor
ADL5859 HCl		** (Ki:32 nM)	** (Ki:37 nM)	**** (Ki:0.84 nM), (EC_{50}:20 nM)
Trimebutine		*		
(±)-U-50488 hydrochloride			*	
Cebranopadol		*		
Naloxone benzoylhydrazone		*** (pEC_{50}:8.74)	**** (pEC_{50}:9.45)	*** (pEC_{50}:8.61)
BAM 22P	*** (IC_{50}:1.3 nM)			
Deltorphin I				**** (IC_{50}:0.5 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A2986 ADL5859 HCl

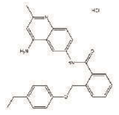
ADL5859 HCl is a selective agonist of δ-opioid receptor with Ki value of 0.84 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A8456 JTC-801

JTC 801 is a high affinity, selective KOR-3 (NOP) receptor antagonist (Ki = 8.2 nM).



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

RAAS Inhibitors

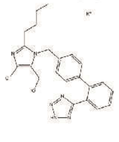
Potency Comparison

Inhibitors	RAAS
Candesartan	**** (IC_{50}:1.12-2.86 nM)
Imidapril HCl	*
Losartan Potassium (DuP 753)	*
Perindopril Erbumine	**** (IC_{50}:1.05 nM)
Rosuvastatin Calcium	*
Telmisattan	*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1425 Losartan Potassium (DuP 753)

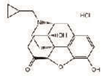
Losartan Potassium (DuP 753) is a selective non-peptide angiotensin AT1 receptor antagonist and inhibits the contractile effects of angiotensin II on rabbit aorta and jugular vein (pA2 = 8.27).



Size:100 mg
Soluble in DMSO > 10 mM

B1648 Naltrexone HCl

Naltrexone HCl is an opioid receptor antagonist and used in treatment of alcohol and opioid dependence.

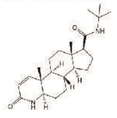


Size:100 mg
Soluble in DMSO > 10 mM

5-alpha Reductase Inhibitor

A5143 Finasteride

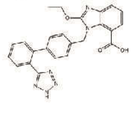
Finasteride is an antiandrogen nand an inhibitor of type II 5α reductase with IC50 value of 65 nM.



Size:100 mg,200 mg
Soluble in DMSO > 10 mM

A5932 Candesartan

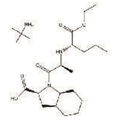
Candesartan is an angiotensin II receptor 1 (AT1) antagonist (IC50 values are 1.12 and 2.86 nM in bovine adrenal cortex and rabbit aorta, respectively).



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A8019 Perindopril Erbumine

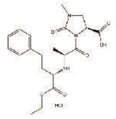
Perindopril Erbumine is an angiotensin-converting enzyme (ACE) inhibitor with IC50 value of 1.05 nM.



Size:100 mg
Limited solubility

A8447 Imidapril HCl

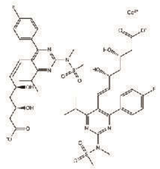
Imidapril is in a class of medicines called angiotensin-converting enzyme inhibitors, or ACE inhibitors used as an antihypertensive drug and for the treatment of chronic heart failure.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8518 Rosuvastatin Calcium

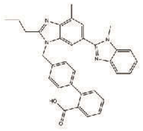
Rosuvastatin calcium is a selective, competitive inhibitor of HMG-CoA reductase, that is also antilipemic.



Size:50 mg,100 mg
Soluble in DMSO > 10 mM

A8531 Telmisattan

Telmisartan is an angiotensin II receptor antagonist (angiotensin receptor blocker, ARB) used in the management of hypertension.



Size:50 mg,100 mg
Soluble in DMSO > 10 mM

Proteases

Calpains Inhibitors

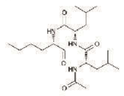
Potency Comparison

Inhibitors	Pan-Calpain	Calpain I	Calpain II	Cathepsin B	Cathepsin L
Calpain Inhibitor I, ALLN	*	** (Ki:190 nM)	** (Ki:220 nM)	** (Ki:150 nM)	** (Ki:500 nM)
Calpain Inhibitor II, ALLM		** (Ki:120 nM)	** (Ki:230 nM)	*** (Ki:100 nM)	**** (Ki:0.6 nM)
MG-132	* (IC_{50}:1.2 μM)				
Acetyl-Calpastatin (184-210) (human)		***** (Ki:0.2 nM)	*		
Calpeptin	*				
MDL 28170	**** (Ki:10 nM)				
PD 150606		** (Ki:210 nM)	** (Ki:370 nM)		

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A2602 Calpain Inhibitor I, ALLN

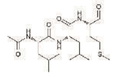
Calpain Inhibitor I,ALLN is an inhibitor of calpain I, calpain II, cathepsin B and cathepsin L with Ki values of 190 nM, 220 nM, 150 nM and 500 pM, respectively.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

A2603 Calpain Inhibitor II, ALLM

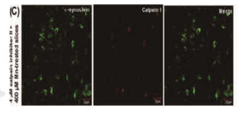
Calpain Inhibitor II, ALLM is a cell-permeable inhibitor of calpain I, calpain II, cathepsin L and cathepsin B with Ki values of 120 nM, 230 nM, 0.6 nM and 100 nM, respectively.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

Product Citation:
Exp Cell Res. (2016)
PMID: 27693494

ALLM disturbs the interaction between α-synuclein and calpain 1.



Cathepsin Inhibitors

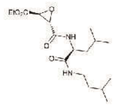
Potency Comparison

Inhibitors	Cathepsins B	Cathepsins F	Cathepsins G	Cathepsins H	Cathepsins K	Cathepsins L	Cathepsins S
CA 074	**** (Ki:2-5 nM)			* (Ki:40-200 μM)		* (Ki:40-200 μM)	
CA-074 Me	*** (IC_{50}:36.3 nM)						
Cathepsin G Inhibitor I			*** (IC_{50}:53 nM)				
E 64d	*	*		*	*	*	
E-64					**** (IC_{50}:1.4 nM)	**** (IC_{50}:2.5 nM)	**** (IC_{50}:4.1 nM)
MDL 28170	*** (Ki:25 nM)						
Cathepsin S inhibitor	*** (Ki:76 nM)						***** (Ki:185 pM)
Odanacatib (MK-0822)	** (IC_{50}:1034 nM)				***** (IC_{50}:0.2 nM)	** (IC_{50}:2995 nM)	*** (IC_{50}:60 nM)
L 006235					***** (IC_{50}:0.25 nM)		
SID 26681509						*** (IC_{50}:56 nM)	

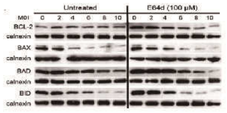
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1903 E 64d

E-64d, a membrane permeant derivative of E-64c, is a thiol protease inhibitor.



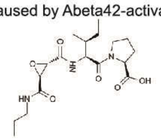
Size:1 mg,5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



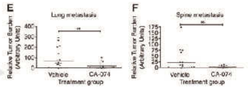
Treatment of E64d on Bcl-2 family protein.

A1926 CA 074

CA-074, a specific cathepsin B inhibitor, also abolished the neurotoxic effects caused by Abeta42-activated BV2 cell.



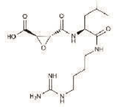
Size:1 mg,5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM



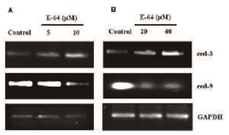
Treatment of CA 074 suppresses tumor metastasis.

A2576 E-64

E-64 is a potent irreversible inhibitor of cysteine proteases with IC50 values of 1.4, 4.1, and 2.5 nM for cathepsins K, S, and L, respectively.



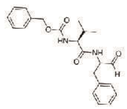
Size:5 mg,25 mg,100 mg,250 mg
Soluble in DMSO > 10 mM



Effect of E-64 on ced-3 and ced-9 expression.

A4412 MDL 28170

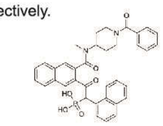
MDL 28170 is a selective inhibitor of calpain and cathepsin B with Ki values of 10 nM and 25 nM, respectively.



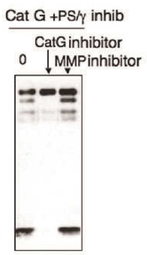
Size:10 mg,25 mg
Soluble in DMSO > 10 mM

A8174 Cathepsin G Inhibitor I

Cathepsin G Inhibitor I is a potent non-peptide inhibitor of cathepsin G with IC50 and Ki values of 53 ± 12 (N : 10) and 63 ± 14 nM (N : 5), respectively.



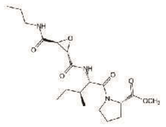
Size:1 mg,5 mg,10 mg
Soluble in DMSO



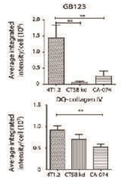
Cathepsin G Inhibitor I inhibits cathepsin G.

A8239 CA-074 Me

CA-074 Me is a membrane-permeable and selective inhibitor of cathepsin B with IC50 value of 36.3 nM.



Size:1 mg,5 mg,10 mg,25 mg
Soluble in DMSO



CA-074 inhibits cathepsin B.

DPP-4 Inhibitors

Potency Comparison

Inhibitors	DPP-4
Alogliptin (SYR-322)	**** (IC_{50}<10 nM)
Glimepiride	*
NVP DPP 728 dihydrochloride	*** (IC_{50}:14 nM),(Ki:11 nM)
Saxagliptin	*
Sitagliptin phosphate monohydrate	*** (IC_{50}:19 nM)
Talabostat mesylate	***** (IC_{50}:1 nM)
Trelagliptin	*
Alogliptin Benzoate	**** (IC_{50}:<10 nM)
DPPI 1c hydrochloride	** (IC_{50}:104 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

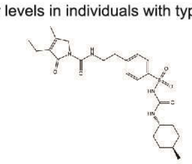
A3888 Trelagliptin

Trelagliptin (SYR-472) is a selective inhibitor of DPP-4 and is developed for the treatment of type 2 diabetes mellitus (T2DM).

Size:5 mg,10 mg
Soluble in DMSO > 10 mM

A4033 Glimepiride

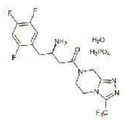
Glimepiride is a sulfonylurea compound and is used to control blood sugar levels in individuals with type 2 diabetes.



Size:10 mg,20 mg,50 mg, 200mg,5g
Soluble in DMSO > 10 mM

A4036 Sitagliptin phosphate monohydrate

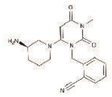
Sitagliptin phosphate is a potent inhibitor of DPP-IV with IC50 of 19 nM in Caco-2 cell extracts.



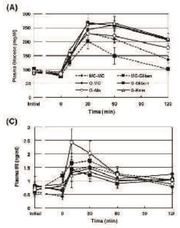
Size:200 mg,500 mg
Soluble in DMSO > 10 mM
Product Citation:
Diabetes Obes Metab. (2015)
PMID: 25580570

A4038 Alogliptin (SYR-322)

Alogliptin is a potent, selective inhibitor of DPP-4 with IC50 of <10 nM, exhibits greater than 10,000-fold selectivity over DPP-8 and DPP-9.



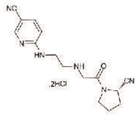
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



Effects of alogliptin on plasma glucose and plasma IRI.

A4427 NVP DPP 728 dihydrochloride

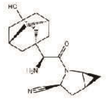
NVP DPP 728 dihydrochloride inhibits human DPP-IV amidolytic activity with a Ki of 11 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8650 Saxagliptin

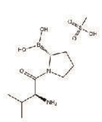
Saxagliptin is a drug for the treatment of respiratory disorders such as asthma and COPD. It is orally active and acts as a selective phosphodiesterase-4 inhibitor.



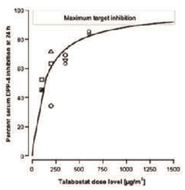
Size:10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

B3941 Talabostat mesylate

Talabostat mesilate (PT-100; Val-boroPro) is an orally active, specific inhibitor of dipeptidyl peptidases for DPP4, including tumor-associated FAP.



Size:10 mg,50 mg
Soluble in DMSO



Inhibition effect of Talabostat on DPP-4.

Elastase Inhibitors

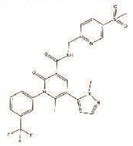
Potency Comparison

Inhibitors	NE	HNE
Alvelestat	*** (Ki:9.4 nM)	
GW311616 hydrochloride		*** (IC_{50}:22 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

B1037 Alvelestat

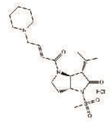
Alvelestat is an orally bioavailable inhibitor of neutrophil elastase (NE) with pIC50 value of 7.9.



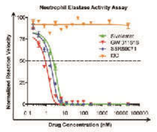
Size:5 mg,10 mg,25 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

B4676 GW311616 hydrochloride

GW311616 hydrochloride is a potent, selective, intracellular, orally bioavailable and long duration inhibitor of HNE with an IC50 value of 22 nM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

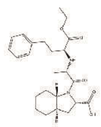


NE activity in the presence of GW311616.

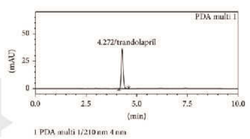
ACE Inhibitor

B3540 Trandolapril

Trandolapril is a competitive inhibitor of angiotensin converting enzyme (ACE).



Size:1 mg
Soluble in DMSO



Signal of trandolapril in the selected mobile phase.

Proteases

Gamma Secretase Inhibitors

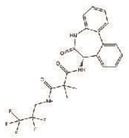
Potency Comparison

Inhibitors	γ-secretase	γ-secretase (membrane-based)	γ-secretase (cell-based)	γ-secretase (APP)	γ-secretase (Aβ38)	γ-secretase (Aβ40)	γ-secretase (Aβ42)	γ-secretase (Notch)
LY-411575		***** (IC_{50}:0.078 nM)	***** (IC_{50}:0.082 nM)					***** (IC_{50}:0.39 nM)
MK-0752	**** (IC_{50}:5 nM)							
RO4929097	**** (IC_{50}:4 nM)					*** (IC_{50}:14 nM)		**** (IC_{50}:5 nM)
YO-01027				**** (IC_{50}:2.6 nM)				**** (IC_{50}:2.9 nM)
DAPT				*** (IC_{50}:20 nM)				
BMS-708163						***** (IC_{50}:0.3 nM)	***** (IC_{50}:0.27 nM)	
Semagacestat					*** (IC_{50}:12 nM)	*** (IC_{50}:12.1 nM)	*** (IC_{50}:10.9 nM)	* (IC_{50}:14.1 nM)
RK 560						***** (IC_{50}:0.65 nM)	***** (IC_{50}:0.65 nM)	
Begacestat						*** (EC_{50}:14.8 nM)	*** (EC_{50}:12.4 nM)	
TC-E 5006							** (EC_{50}:390 nM)	
LY-900009								***** (IC_{50}:0.27 nM)
LY3039478								***** (IC_{50}:0.41 nM)
PF-03084014	**** (IC_{50}:6.2 nM)							

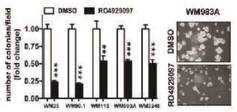
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4005 RO4929097

RO4929097 is a small-molecule inhibitor of γ secretase with IC50 of 4 nM and EC50 of 5 nM.



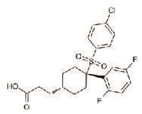
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM



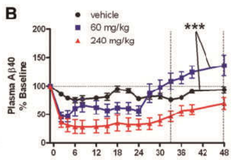
RO4929097 inhibits proliferation of primary melanoma cells.

A4006 MK-0752

MK-0752 is a potent gamma secretase inhibitor in clinical development (IC50 ~50 nM).



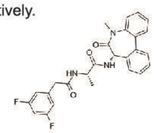
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



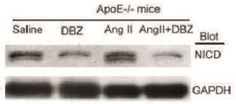
Effect of MK-0752 on Aβ levels.

A4018 YO-01027 (Dibenzazepine, DBZ)

YO-01027 (Dibenzazepine, DBZ) is a dipeptidic inhibitor of γ-secretase with IC50 of 2.6 nM and 2.9 nM for APPL and Notch cleavage, respectively.



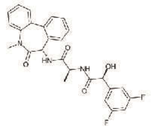
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM



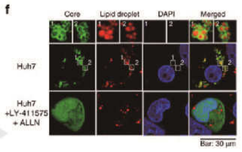
YO-01027 inhibits the activation of notch signaling.

A4019 LY-411575

LY411575 is a potent γ-secretase inhibitor with IC50 value of 0.078 nM and 0.082 nM for membrane and cell-based, respectively.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



Localization of the HCV core in cells treated with LY-411575.

HCV Protease Inhibitors

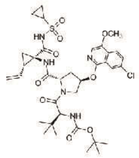
Potency Comparison

Inhibitors	HCV Protease NS3	HCV NS3/4A Protease	NS5A	NS5B
Asunaprevir (BMS-650032)	***** (IC_{50}:1 nM)			
Boceprevir	*** (Ki:14 nM)			
Daclatasvir (BMS-790052)			***** (EC_{50}:9-146 pM)	
Danoprevir (RG7227)		***** (IC_{50}:0.2-3.5 nM)		
Nesbuvir				**** (IC_{50}:5 nM)
PSI-6206				*
Simeprevir		*		
Telaprevir (VX-950)		**** (Ki:7 nM)		
Ciluprevir (BILN-2061)	**** (IC_{50}:3 nM)			
Narlaprevir	**** (Ki:6 nM; EC_{90}:40 nM)			
Vaniprevir		*		

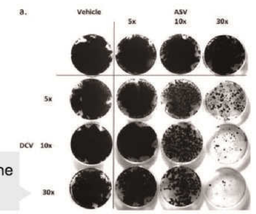
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3195 Asunaprevir (BMS-650032)

Asunaprevir (BMS-650032) is an orally efficacious inhibitor of NS3 protease with IC50 value of 1 nM.



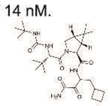
Size:5 mg,10 mg,50 mg
Soluble in DMSO



Combination treatment reduces the emergence of resistant colonies.

A3261 Boceprevir

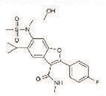
Boceprevir (EBP-520, SCH503034) is an inhibitor of HCV protease with a Ki value of 14 nM.



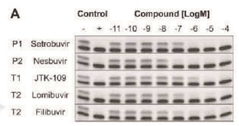
Size:5 mg,10 mg,25 mg,100 mg
Soluble in DMSO

A3655 Nesbuvir

Nesbuvir is a novel selective inhibitor of nonstructural protein 5B (NS5B) polymerase with IC50 value of 5 nM.



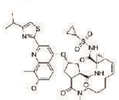
Size:5 mg,10 mg,25 mg
Soluble in DMSO



Effects of HCV G1 NNIs on primed and de novo RdRp activities.

A3820 Simeprevir

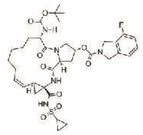
Simeprevir is a potent inhibitor of HCV NS3/4A protease with Ki value of 0.36 nM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

A4024 Danoprevir (RG7227)

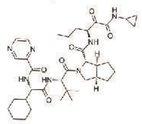
Danoprevir (RG7227) is a highly selective and potent inhibitor of HCV NS3/4A protease with IC50 value of 0.2-3.5 nM.



Size:2 mg,5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A4031 Telaprevir (VX-950)

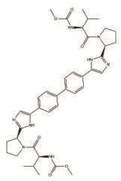
Telaprevir (VX-950) is a novel and potent inhibitor of hepatitis C virus (HCV) NS3-4A protease.



Size:2 mg,5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM

A5618 Daclatasvir (BMS-790052)

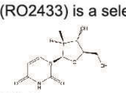
Daclatasvir (BMS-790052; EBP 883) is a first-in-class, highly-selective oral inhibitor of HCV NS5A with EC50 values of 9-50 pM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

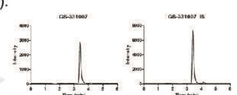
A8189 PSI-6206

PSI-6206 (RO2433) is a selective inhibitor of HCV RNA polymerase .



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO

Product Citation:
Antimicrob Agents Chemother.(2015).
PMID: 26416874



A typical chromatograph for the clinical research of PSI-6206.

Proteases

HIV Integrase Inhibitors

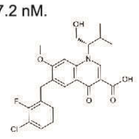
Potency Comparison

Inhibitors	HIV-I integrase	Subtype B Integrase	Subtype C Integrase
Elvitegravir (GS-9137)	**** (IC50:7.2 nM)		
GSK744 (S/GSK1265744)	**** (IC50:3 nM)		
MK-2048		*** (IC50:75 nM)	*** (IC50:80 nM)
Raltegravir (MK-0518)	*		
S/GSK1349572	**** (IC50:2.7 nM)		
(±)-BI-D	*		
BI 224436	*		
BMS-538203	*		
BMS-707035	*** (IC50:15 nM)		
HIV-1 integrase inhibitor	*		
HIV-1 integrase inhibitor 2	*		

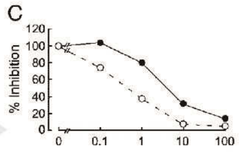
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A4070 Elvitegravir (GS-9137)

Elvitegravir (GS-9137) is a potent inhibitor of HIV-I integrase with IC50 value of 7.2 nM.



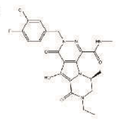
Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



Antiviral activities of EVG (open circles with dashed lines) retroviruses.

A4072 MK-2048

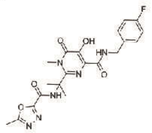
MK-2048 is a second generation inhibitor of HIV-1 integrase with IC50 values of 0.075 μM and 0.08 μM for subtype B and subtype C integrase, respectively.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A4073 Raltegravir (MK-0518)

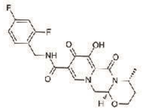
MK-0518 is an HIV-1 integrase strand transfer inhibitor which has been shown to have activity against multidrug-resistant HIV-1 and both CCR5-trophic and CXCR4-trophic HIV-1 in vitro.



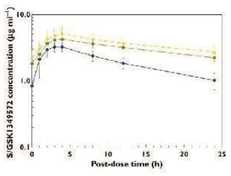
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A4074 S/GSK1349572

Dolutegravir (GSK1349572) is an inhibitor of two-metal-binding HIV integrase with an IC50 value of 2.7 nM.



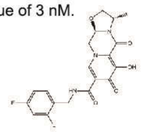
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



Mean concentration–time profiles of S/GSK1349572.

A8566 GSK744 (S/GSK1265744)

GSK744 (S/GSK1265744) is a potential inhibitor of HIV integrase with IC50 value of 3 nM.



Size:5 mg
Soluble in DMSO

HIV Protease Inhibitors

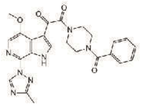
Potency Comparison

Inhibitors	HIV Protease	HIV-1 Protease	HIV-2 Protease	HIV-1 gp120
Atazanavir	**** (Ki:2.6-5.3 nM)			
Amprenavir (agenerase)		***** (IC_{50}:0.6 nM)	*** (IC_{50}:19 nM)	
BMS-626529				**** HIV-1 subtype A/B/C envelope (IC_{50}:2.26/0.34/1.3 nM)
Darunavir		**** (IC_{50}:3 nM)		
Fosamprenavir Calcium Salt	*			
Lopinavir	***** (Ki:1.3 pM)			
Ritonavir	** (EC_{50}:22-160 nM)			
Saquinavir Mesylate		***** (Ki:0.12 nM)	***** (Ki: <0.1 nM)	
Nelfinavir Mesylate	**** (Ki:2 nM)			
Tipranavir	***** (Ki:8 pM)			
Deuterated Atazanivir-D3-1	*			

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3253 BMS-626529

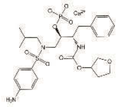
BMS-626529 is a small-molecule attachment inhibitor of HIV-1 gp120 with IC50 values of 2.26 nM, 0.34 nM and 1.3 nM for HIV-1 subtype A, B, and C envelope, respectively.



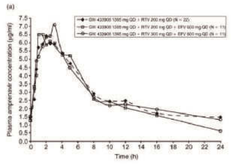
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO

A3421 Fosamprenavir Calcium Salt

Fosamprenavir Calcium Salt is a selective inhibitor of antiretroviral protease with the concentration of 1395 mg nM once daily in clinical trial.



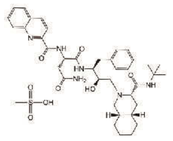
Size:5 mg,10 mg
Soluble in Water



Effect of Fosamprenavir on virus production.

A3791 Saquinavir mesylate

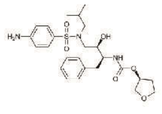
Saquinavir is a potent inhibitor HIV protease with Ki value of 0.12 and < 0.1 nM for HIV-1 and HIV-2 protease.



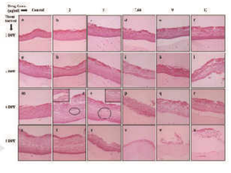
Size:10 mg,25 mg,200 mg
Soluble in DMSO > 10 mM

A8201 Amprenavir (agenerase)

Amprenavir (agenerase) is an inhibitor of HIV protease with IC50 of 14.6 ng/mL in wild-type HIV isolates.



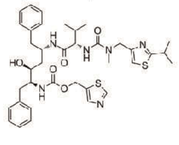
Size:5 mg,50 mg
Soluble in DMSO > 10 mM



Effect of Amprenavir on gingival epithelium morphology.

A8203 Ritonavir

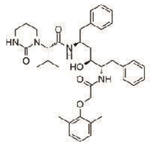
Ritonavir is an antiretroviral (HIV) drug and inhibitor of particular liver enzyme that normally metabolizes protease inhibitors, cytochrome P450-3A4 (CYP3A4).



Size:10 mg,25 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A8204 Lopinavir

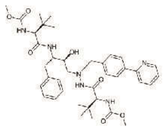
Lopinavir is a potent HIV protease inhibitor with Ki of 1.3 pM.



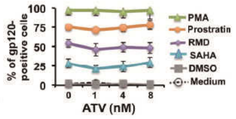
Size:50 mg,100 mg,250 mg
Soluble in DMSO > 10 mM

A8205 Atazanavir

Atazanavir is an inhibitor of HIV protease with Ki of 2.66 nM.



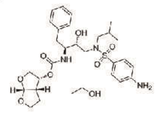
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO



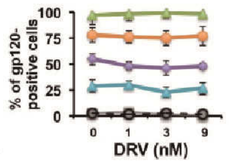
Effects of Atazanavir on virus production.

A8206 Darunavir

Darunavir is an inhibitor of HIV protease with IC50 value of 0.003 μmol/L in HIV-1 infected MT-2 cells.



Size:5 mg,50 mg
Soluble in DMSO > 10 mM

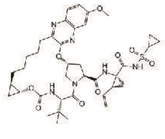


Effect of Darunavir on virus production.

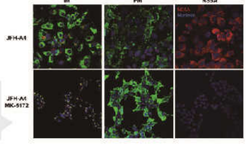
NS3/4a Protease Inhibitor

A3618 MK-5172

MK-5172 is a selective inhibitor of Hepatitis C Virus NS3/4a Protease.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO



MK-5172 reverts changes in PI4P subcellular distribution.

Proteases

Proteases

HSP Inhibitors / Activators

Potency Comparison

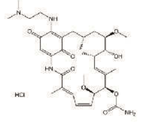
Inhibitors	Hsp90	Hsp70	Hsp90α	Hsp90β
17-DMAG (Alvespimycin) HCl	*** (IC_{50}:62±29 nM)			
VER 155008		** (IC_{50}:0.5 μM)		
XL-888	*** (IC_{50}:24 nM)		*** (IC_{50}:22 nM)	*** (IC_{50}:44 nM)
17-AAG (KOS953)	**** (IC_{50}:5 nM)			
AT13387	*** (IC_{50}:18 nM)			
AUY922 (NVP-AUY922)	*		*** (IC_{50}:13 nM)	*** (IC_{50}:21 nM)
BIIB021	***** (Ki:1.7 nM)(EC_{50}:38 nM)			
Ganetespib (STA-9090)	**** (IC_{50}:4 nM)			
HSP990 (NVP-HSP990)	*			
PF-04929113 (SNX-5422)	*** (IC_{50}:50 nM)			
Radicicol	* (IC_{50}<1 μM)			
Retaspimycin	*			
SNX-2112	*		*** (Ka:13 nM)	*** (Ka:21 nM)
Alvespimycin	*** (IC_{50}:62 nM)			
EC 144	***** (IC_{50}:1.1 nM)			

Activators	Hsp90	Hsp70	Hsp90α	Hsp90β
Elesclomol (STA-4783)		*		
TRC 051384		*		

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A2213 17-DMAG (Alvespimycin) HCl

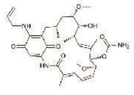
17-DMAG (Alvespimycin) is an inhibitor of Hsp90 with IC50 value of 62±29nM.



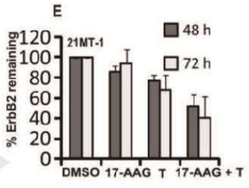
Size:10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A4054 17-AAG (KOS953)

17-AAG (KOS953) is a potent inhibitor of HSP90 with IC50 value of 6 nM in BT474 cells.



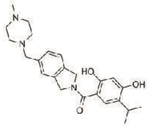
Size:10 mg,50 mg,100 mg,200 mg
Soluble in DMSO > 10 mM



Combination of 17-AAG and Trastuzumab induces ErbB2-degradation.

A4056 AT13387

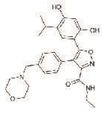
AT13387 is a synthetic, orally bioavailable and small-molecule inhibitor of heat shock protein 90 (Hsp90) with IC50 value of 18 nM in A375 cells.



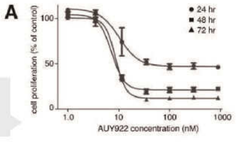
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A4057 AUY922 (NVP-AUY922)

AUY922 (NVP-AUY922) is a highly potent inhibitor of HSP90 for HSP90α/β with IC50 of 13 nM /21 nM.



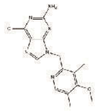
Size:5 mg,10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



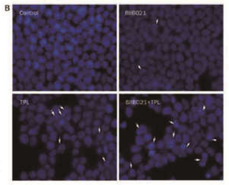
Effects of AUY922 on cultured Jurkat leukemia cells.

A4058 BIIB021

BIIB021 is a selective inhibitor of Hsp90 with Ki and EC50 values of 1.7 nM and 38 nM, respectively.



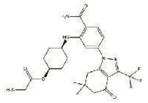
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



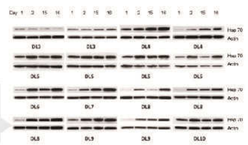
Synergistic cytotoxicity to Molt-4 cells of BIIB021 and TPL.

A4065 PF-04929113 (SNX-5422)

PF-04929113 (SNX-5422) is a potent and selective inhibitor of Hsp90 with IC50 value of 50 nM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

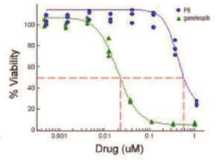


Hsp70 induction in PBMCs after treatment with PF-04929113.

A4385 Ganetespib (STA-9090)

Ganetespib (STA-9090) is an inhibitor of HSP90 with IC50 of 4 nM in OSA 8 cells.

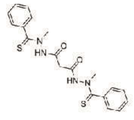
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



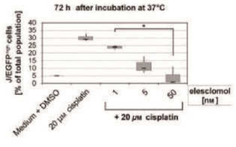
Ganetespib inhibits JAK/STAT target and cell cycle gene expression.

A4386 Elesclomol (STA-4783)

Elesclomol (STA-4783) is a novel potent inducer of oxidative stress.



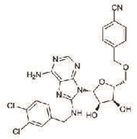
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



Elesclomol prevents the survival of melanoma cells.

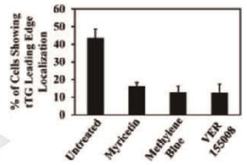
A4387 VER 155008

VER 155008 is a novel adenosine-derived inhibitor of heat shock protein 70 (HSP 70) with IC50 value of 0.5 μM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

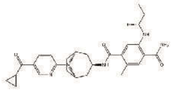
Product Citation:
Hear Res. (2015)
PMID: 26183436



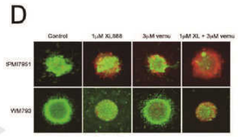
VER 155008 prevents tTG and Hsp70 localizing at leading edges.

A4388 XL-888

XL-888 is an orally bioavailable, ATP-competitive, small-molecule inhibitor of heat shock protein 90 (Hsp90) with IC50 value of 24 nM.



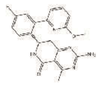
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM



XL888 degrades proteins involved in BRAF inhibitor resistance.

B4797 HSP990 (NVP-HSP990)

HSP990 (NVP-HSP990) is a potent and selective inhibitor of Hsp90 with IC50 values of 0.6, 0.8 and 8.5 nM for Hsp90α, Hsp90β and Grp94, respectively.

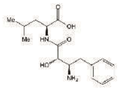


Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

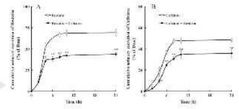
Aminopeptidase Inhibitor

A2575 Bestatin

Bestatin is a potent aminopeptidase inhibitor with IC50 values of 0.5 nM, 5 nM, 0.28 μM and 1-10 μM for cytosol aminopeptidase, aminopeptidase N, zinc aminopeptidase and amino peptidase B, respectively.



Size:5 mg,10 mg,25 mg,100 mg
Soluble in DMSO



Urine excretion of bestatin after intravenous administration.

Proteases

MMP Inhibitors

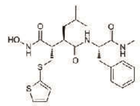
Potency Comparison

Inhibitors	MT1-MMP	MMP-1	MMP-2	MMP-3	MMP-7	MMP-8	MMP-9	MMP-12	MMP-13	MMP-14
Batimastat		****(IC_{50}:3 nM)	****(IC_{50}:4 nM)	***(IC_{50}:20 nM)	****(IC_{50}:6 nM)		****(IC_{50}:4 nM)			
Doxycycline HCl		*(IC_{50}:300 μM)				*(IC_{50}:30 μM)				
GM 6001		*****(Ki:0.4 nM)	*****(Ki:0.5 nM)	***(Ki:27 nM)		*****(Ki:0.1 nM)	*****(Ki:0.2 nM)			
Marimastat		****(IC_{50}:5 nM)	*****(IC_{50}:6 nM)		***(IC_{50}:13 nM)		****(IC_{50}:3 nM)			****(IC_{50}:9 nM)
NSC 405020	*(IC_{50}:>100 μM)									
CTS-1027		**(IC_{50}:800 nM)	*****(IC_{50}:0.4 nM)						*****(IC_{50}:0.6 nM)	
UK 356618				****(IC_{50}:5.9 nM)			**(IC_{50}:840 nM)		***(IC_{50}:73 nM)	
ARP 100			***(IC_{50}:12 nM)							
ARP 101			*****(IC_{50}:0.81 nM)							
CP 471474		*(IC_{50}:1170 nM)	*****(IC_{50}:0.7 nM)	***(IC_{50}:16 nM)			***(IC_{50}:13 nM)		*****(IC_{50}:0.9 nM)	
ONO 4817		*(Ki:1600 nM)	*****(Ki:0.73 nM)	***(Ki:42 nM)	*(Ki:2500 nM)	****(Ki:1.1 nM)	****(Ki:2.1 nM)	*****(Ki:0.45 nM)	****(Ki:1.1 nM)	
PD 166793			****(IC_{50}:4 nM)	****(IC_{50}:7 nM)					****(IC_{50}:8 nM)	
Ro 32-3555		****(Ki:3.0 nM)	**(Ki:154 nM)	**(Ki:527 nM)		****(Ki:4.4 nM)	***(Ki:59 nM)		****(Ki:3.4 nM)	
UK 370106				***(IC_{50}:23 nM)	*(IC_{50}:5.8 μM)	*(IC_{50}:1.75 μM)	*(IC_{50}:30.4 μM)	***(IC_{50}:42 nM)	*(IC_{50}:2.3 μM)	
WAY 170523									***(IC_{50}:17 nM)	
Batimastat sodium salt		****(IC_{50}:3 nM)	****(IC_{50}:4 nM)	***(IC_{50}:20 nM)	****(IC_{50}:6 nM)		****(IC_{50}:4 nM)			

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

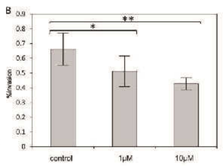
A2577 Batimastat (BB-94)

Batimastat (BB-94) is a potent, broad spectrum inhibitor of matrix metalloprotease (MMP) for MMP-1, MMP-2, MMP-9, MMP-7 and MMP-3 with IC50 of 3 nM, 4 nM, 4 nM, 6 nM and 20 nM, respectively.



Size:1 mg,5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM

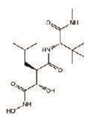
Product Citation:
Glia. (2016) PMID: 27159043



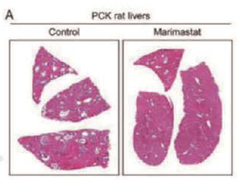
Batimastat suppressed the biological activities of SCLss.

A4049 Marimastat

Marimastat is a broad range inhibitor of Matrix metalloproteinases with IC50 values of 5, 6, 13, 3 and 9 nM for MMP-1, MMP-2, MMP-7 , MMP-9 and MMP-14.



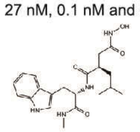
Size:1 mg,10 mg,50mg
Soluble in DMSO > 10 mM



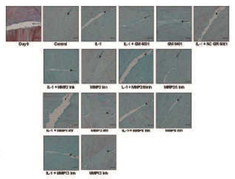
Marimastat decreases liver cystogenesis in 8-week-old PKC rats.

A4050 GM 6001

GM 6001 is a broad-spectrum inhibitor of MMP with Ki values of 0.4 nM, 0.5 nM, 27 nM, 0.1 nM and 0.2 nM, respectively for MMP-1,2,3,8 and 9.



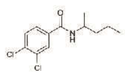
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



GM 6001 enhances tissue repair in the meniscal interface.

A4051 NSC 405020

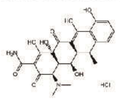
NSC 405020 is a small-molecule inhibitor of Membrane type-1 matrix metalloproteinase (MT1-MMP) with IC50 value of > 100 μM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8420 Doxycycline HCl

Doxycycline HCl is a synthetic tetracycline derivative with similar antimicrobial activity.



Size:50mg
Limited solubility

Serine Protease Inhibitors

Potency Comparison

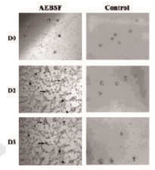
Inhibitors	Serine Protease	Trypsin
AEBSF.HCl	*	
Aprotinin		*
Nafamostat Mesylate(FUT-175)	*	
PMSF	*	
Leupeptin, Microbial		*****(Ki:0.13 nM)
AEBSF.HCl	*	
BCX 1470	*	
BCX 1470 methanesulfonate	*	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A2573 AEBSF HCl

AEBSF is a broad spectrum, irreversible inhibitor of serine proteases with IC50 value of about 300 μM.

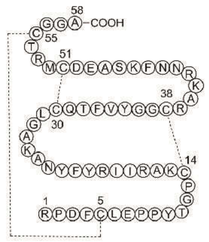
Size:100 mg,500 mg
Soluble in DMSO > 10 mM



Attachment of mouse blastocysts were disturbed by AEBSF.

A2574 Aprotinin

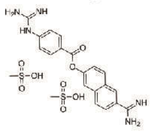
Aprotinin is the small protein bovine pancreatic trypsin inhibitor (BPTI).



Size:10 mg,25 mg,50 mg,100 mg
Soluble to 10 mg/ml in sterile water

A2586 Nafamostat Mesylate (FUT-175)

Nafamostat mesylate (FUT-175), is an inhibitor of serine protease that inhibits a variety of serine proteases, including trypsin and several proteases in the coagulation cascade.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A2587 PMSF

PMSF (Phenylmethanesulfonyl fluoride) is an irreversible inhibitor of serine proteinases, which is associated with the development of the delayed organophosphorus neuropathy.

Size:100 mg
Soluble in DMSO > 10 mM

Thrombin Inhibitors

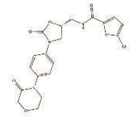
Potency Comparison

Inhibitors	Thrombin	FXa
5-R-Rivaroxaban		*****(IC_{50}:0.7 nM)
Apixaban		*****(Ki:0.08 nM)
BIBR-1048 (Dabigatran etexilate)	****(IC_{50}:9.3 nM)	
Edoxaban tosylate monohydrate		****(Ki:0.561 nM)
PPACK Dihydrochloride	*****(Ki:0.24 nM)	
Dabigatran ethyl ester	*	
Dabigatran etexilate mesylate	****(Ki:4.5 nM)	
Bivalirudin Trifluoroacetate	*	
BIBR 953 (Dabigatran, Pradaxa)	****(IC_{50}:9.3 nM)	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3126 5-R-Rivaroxaban

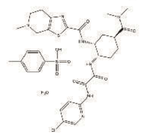
5-R-Rivaroxaban is a selective inhibitor of human Factor Xa with IC50 value of 0.7 nmol/L.



Size:10 mg,50 mg,100 mg
Soluble in DMSO

A3383 Edoxaban tosylate monohydrate

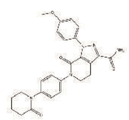
Edoxaban tosylate monohydrate is a novel antithrombotic agent that directly inhibits FXa activity.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

A4341 Apixaban

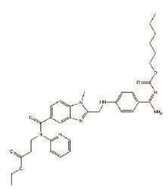
Apixaban is a highly selective, reversible inhibitor of Factor Xa with Ki of 0.08 nM and 0.17 nM in human and rabbit, respectively.



Size:10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

A8381 BIBR-1048 (Dabigatran etexilate)

BIBR-1048 (Dabigartran etexilate) is a potent, selective and competitive inhibitor of thrombin with Ki value of 4.5 nM and 10 nM for human thrombin and thrombin-induced platelet aggregation,respectively.



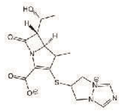
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

Microbiology & Virology

Antibiotics

A1373 Biapenem

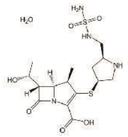
Biapenem is a carbepenem that exhibits antibacterial activities against a wide range of gram-positive and gram-negative bacteria.



Size:25mg,100mg
Limited solubility

A2036 Doripenem Hydrate

Doripenem hydrate is a parenteral, potent, and well-balanced antibiotic against a wide range of both Gram+ and Gram- bacteria.



Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

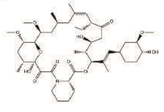
A3177 AN-2690

AN2690 is a new boron-containing antifungal agent for the potential treatment of onychomycosis.

Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

A3191 Ascomycin (FK 520)

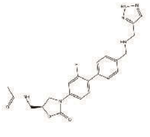
Ascomycin is a macrolide immunosuppressant antibiotic.



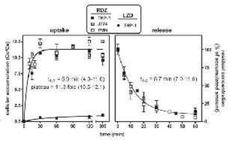
Size:10 mg,25 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A3749 Radezolid

Radezolid was approximately four-times more potent than linezolid against MRSA, with MIC90 of 0.5 mg/l and 2.0 mg/l, respectively.



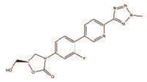
Size:5 mg,10 mg,50 mg
Soluble in DMSO



Kinetics of radezolid and linezolid uptake and release.

A3863 Tedizolid

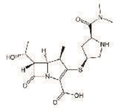
Tedizolid is an oxazolidinone antimicrobial agent with MIC50 value of 0.5 μg/ml for MSSA, MRSA, VR E. faecium and VR E. faecalis and 0.25 μg/ml for MSSE, MRSE, PSSP and PRSP.



Size:5 mg,10 mg,50 mg
Soluble in DMSO

A5124 Meropenem

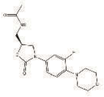
Meropenem is a β-lactam antibiotic of the carbapenem subclass that has been shown to inhibit penicillinase-negative, -positive and methicillin-susceptible staphylococci.



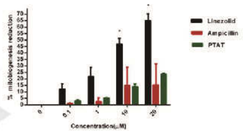
Size:5 mg,100 mg
Soluble in DMSO > 10 mM

A5181 Linezolid

Linezolid is antibacterial reagent that inhibits bacterial protein synthesis prior to chain initiation.



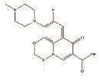
Size:10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



Effect of PNA, linezolid and ampicillin on mitobiogenesis.

A5346 Marbofloxacin

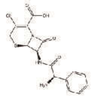
Marbofloxacin is a fluorinated, quinolone antibacterial.



Size:100 mg
Limited solubility

A5559 Cefaclor

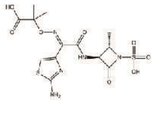
Cefaclor is a cephalosporin antibiotic that inhibits cell wall synthesis.



Size:100 mg
Limited solubility

A5931 Aztreonam

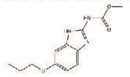
Aztreonam is the first totally synthetic monocyclic β-lactam antibiotic.



Size:100 mg
Soluble in DMSO > 10 mM

A8358 Albendazole

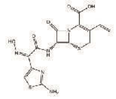
Albendazole is an anthelmintic.



Size:100 mg
Soluble in DMSO > 10 mM

A8391 Cefdinir

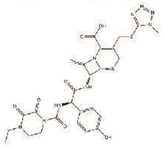
Cefdinir is a Cephalosporin antibiotic that is structurally similar to Cefixime.



Size:10 mg
Soluble in DMSO > 10 mM

A8392 Cefoperazone

Cefoperazone is an antimicrobial agent that possesses potent LACTB (β-lactamase) inhibitory properties.



Size:50 mg,1 g,5 g
Soluble in DMSO > 10 mM

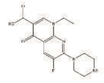
A8401 Clotrimazole

Clotrimazole, bis-phenyl-(2-chlorophenyl)-1-imidazolyl methane, is a uniquely antifungal compound.

Size:100mg,1g
Soluble in DMSO > 10 mM

A8423 Enoxacin (Penetrex)

Enoxacin is a quinolone antibacterial agent. Acts on DNA gyrase.



Size:50 mg
Soluble in DMSO

A8429 Ethionamide

Ethionamide is part of a group of drugs used in the treatment of drug resistant TB called thioamides.

Size:50 mg,5 g
Soluble in DMSO > 10 mM

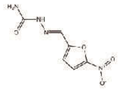
A8433 Flucytosine

Flucytosine (5-Fluorocytosine, 5-FC, Ancobon), a fluorinated pyrimidine analogue, is an antifungal drug.

Size:10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A8486 Nitrofurazone

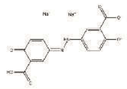
Nitrofurazone is a topical anti-infective and antimicrobial agent with an IC50 value of 22.83 ± 1.2 μM.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

A8490 Olsalazine sodium

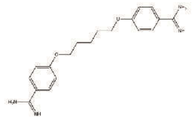
Olsalazine sodium is a mesalamine dimer.



Size:25 mg,100 mg
Soluble in DMSO > 10 mM

A8498 Pentamidine

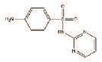
Pentamidine is used to treat protozoal diseases.



Size:25 mg
Soluble to 100 mM in sterile water

A8527 Sulfadiazine

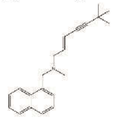
Sulfadiazine is an antibacterial.



Size:50mg
Soluble in DMSO > 10 mM

A8533 Terbinafine

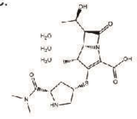
Terbinafine is an allylamine antifungal agent which has fungicidal activity against a wide variety of dermatophytes, moulds and certain dimorphic fungi, and fungistatic activity against Candida albicans.



Size:100mg
Soluble in DMSO > 10 mM

B1217 Meropenem trihydrate

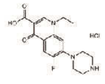
Meropenem trihydrate (SM-7338) is an active ingredient carbapenem antibiotic.



Size:25 mg,50 mg,100 mg,250 mg
Soluble in DMSO

B1221 Norfloxacin hydrochloride

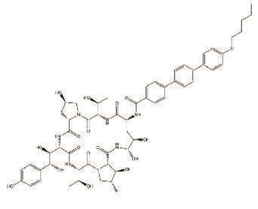
Norfloxacin hydrochloride is a broad-spectrum antibiotic that is active against both Gram-positive and Gram-negative bacteria, which functions by inhibiting DNA gyrase.



Size:5 g,10 g
Soluble in DMSO

B1224 Anidulafungin

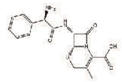
Anidulafungin (LY-303366) is a synthetic derivative of echinocandin B, used as a drug of antifungal.



Size:100 mg,250 mg
Soluble in DMSO > 10 mM

B1692 Cephalexin

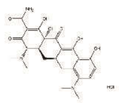
Cefalexin is a cephalosporin antibiotic.



Size:50 mg,200mg
Limited solubility

B1791 Minocycline HCl

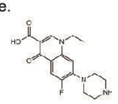
Minocycline is a tetracycline antibiotic with neuroprotective, antiapoptotic, anti-inflammatory and antimicrobial effects.



Size:50 mg,100 mg
Limited solubility

B1801 Norfloxacin

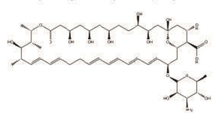
Norfloxacin is a broad-spectrum antibiotic that is active against both Gram-positive and Gram-negative bacteria, which functions by inhibiting DNA gyrase.



Size:5 g,10 g
Limited solubility

B1993 Nystatin (Fungicidin)

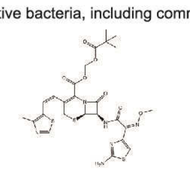
Nystatin (Fungicidin) is a polyene antifungal antibiotic.



Size:200 mg,500 mg
Soluble in DMSO > 10 mM

B2086 Cefditoren Pivoxil

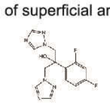
Cefditoren pivoxil is a new-third generation cephalosporin antibiotic that has a broad spectrum of activity against Gram-positive and Gram-negative bacteria, including common respiratory and skin pathogens.



Size:10 mg,25 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

B2094 Fluconazole

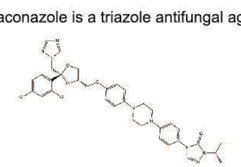
Fluconazole is a triazole antifungal drug used in the treatment and prevention of superficial and systemic fungal infections.



Size:100 mg,1 g,5 g
Soluble in DMSO > 10 mM

B2104 Itraconazole

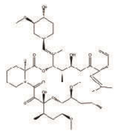
Itraconazole is a triazole antifungal agent.



Size:100 mg,200 mg,1 g
Limited solubility

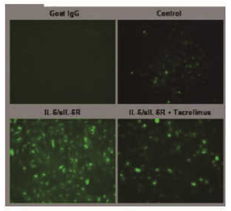
B2143 Tacrolimus (FK506)

Tacrolimus (FK506) is a potent and selective inhibitor of T-lymphocyte and the macrolide immunosuppressant.



Size:50 mg,100 mg,200 mg, 500 mg,1g
Soluble in DMSO > 10 mM

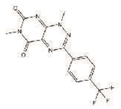
Product Citation:
Sci Rep. (2016)
PMID: 27641617



Inhibition effect of FK506 on the expression of RANKL in FLS.

B3291 Walrycin B

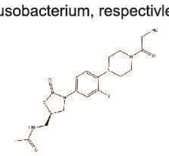
Walrycin B is an inhibitor of WalR.



Size:5 mg,10 mg,50 mg
Soluble in DMSO

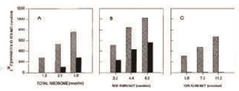
B3390 Eperezolid

Eperezolid is oxazolidinone antibacterial agent with MIC50 of 0.5, 1.0, 2.0, 1.0, 16.0 and 2.0 mg/L for Pcptostreptococcus, Propionibacterium acnes, Ciostridium pefringens, Clostridium dijiicile, Bactrroidesjagilis, and Fusobacterium, respectivley.



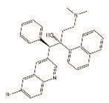
Size:5 mg,10 mg,50 mg
Soluble in DMSO

Eperezolid binding to E. coli ribosomes.



B3492 Bedaquiline

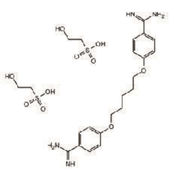
Bedaquiline is a potent first-in-class ATP synthase inhibitor for pulmonary multi-drug resistant TB (MDR-TB).



Size:5 mg,10 mg,50 mg
Soluble in DMSO

B4980 Pentamidine isethionate

Pentamidine isethionate is used as a drug to treat protozoal diseases, and has been shown to be effective for both prophylaxis of pneumocystic carinii pneumonia (PCC).



Size:50 mg
Soluble to 100 mM in water

Antimalarials

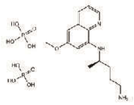
Potency Comparison

Inhibitors	Malaria
Dihydroartemisinin	**** (IC_{50}:0.25 to 4.56 nM)
Primaquine Diphosphate	* (IC_{50}:0.08 microg/mL)
Artemether (SM-224)	*
Mefloquine hydrochloride	* (IC_{50}:1mM)
Naphthoquine phosphate	**** (IC_{50}:0.1~ 5.2 Nm)
DDD107498	***** (IC_{50}:＜1 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

B1820 Primaquine Diphosphate

Primaquine diphosphate is an antimalarial agent,and blocks protein synthesis.



Size:5 g,10 g
Soluble in DMSO > 10 mM

N1713 Dihydroartemisinin

Dihydroartemisinin (DHA) has potent effects on antimalarial, antipsoriasis and anti-inflammatory.

Size:20 mg
Soluble in DMSO > 10 mM

CMV Inhibitors

Potency Comparison

Inhibitors	CMV
Cidofovir	* (IC_{50}:0.94 μM)
CMX001	*
Valganciclovir HCl	*
Valganciclovir	*
Letermovir	**** (IC_{50}:5.1 ± 1.2 nM)

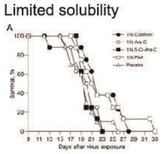
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A5790 Cidofovir

Cidofovir (Vistide) is an injectable antiviral medication for the treatment of cytomegalovirus (CMV) retinitis. (IC50 : 94 μM)

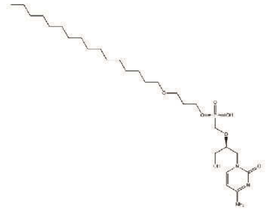
Size:10 mg,25 mg,100 mg
Limited solubility

Treatment with cidofovir significantly improved mice's survival.



B1089 CMX001

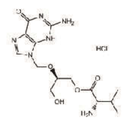
CMX001 is a broad spectrum antiviral agent with EC50 values of 0.02, 0.0004, 17, 0.045 and 0.07 μM for Adenovirus, Herpesvirus, Papillomavirus, Polyomavirus and Orthopoxvirus, respectively.



Size:5 mg,25 mg
Soluble in DMSO

B1864 Valganciclovir HCl

Valganciclovir (hydrochloride), the L-valyl ester of ganciclovir, is actually a prodrug for ganciclovir.



Size:50 mg,100 mg
Soluble in DMSO > 10 mM

HBV Inhibitors/Activator

Potency Comparison

Inhibitors	HBV	HCV	HSV-1	HSV-2	HIV	TLR-7
Adefovir Dipivoxil	*					
Helioxanthin	* (EC_{50}:1 μM)	* (EC_{50}:3 μM)	* (EC_{50}:2 μM)			
Helioxanthin derivative 5-4-2	*** (EC_{50}:80 nM)	** (EC_{50}:290 nM)		** (EC_{50}:160 nM)		
Helioxanthin 8-1	*** (EC_{50}:30 nM)				* (EC_{50}:2.7 μM)	

Activator	HBV	HCV	HSV-1	HSV-2	HIV	TLR-7
GS-9620						** (EC_{50}:291 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1091 Surface antigen (208-215) [Hepatitis B Virus]

Surface antigen (208-215) [Hepatitis B Virus] is used for signs of infection.

Size:1 mg,5 mg,10 mg,25 mg

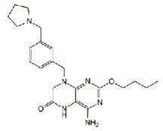
A1140 HBcAg [Hepatitis B virus] (18-27)

HBcAg (core antigen) is a hepatitis B viral protein, which is an indicator of active viral replication.

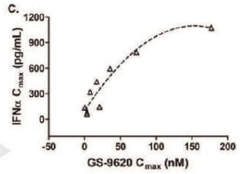
Size:1 mg,5 mg,10 mg,25 mg

A3444 GS-9620

GS-9620 is a potent and selective orally active small-molecule agonist of Toll-like receptor 7(TLR-7).



Size:5 mg,10 mg,50 mg
Soluble in DMSO



Pharmacodynamics of GS-9620 in uninfected chimpanzees.

HCV Inhibitors

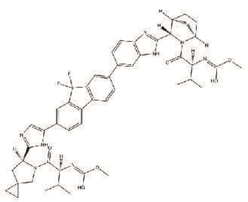
Potency Comparison

Inhibitors	HCV replication	NS4B	NS5A	NS5B
Ledipasvir			** (EC50:141nM)	
T 705				*
PSI-6130				** (EC_{50}:0.46 μM)
Nesbuvir				**** (IC_{50}:5 nM)
VX-222 (VCH-222, Lomibuvir)				** (IC_{50}:0.94-1.2 μM)
Anguizole	*	** (IC_{50}:310 nM)		
Balapiravir				*
BMS-790052 dihydrochloride			***** (EC_{50}:9-50 pM)	
Daclatasvir (BMS-790052)			***** (EC_{50}:9-146 pM)	
Ledipasvir acetone			*	
ABT-333				*
RO-9187	** (IC_{50}:171 nM)			
Tegobuvir	*			*
PSI-6206				*
R-1479	* (IC_{50}:1.28 μM)			

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3546 Ledipasvir

Ledipasvir is an inhibitor of the hepatitis C virus replication with IC50 value of 141 nM.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

B1114 T 705

T 705 (Favipiravir) is a RNA-directed RNA polymerase NS5B inhibitor.

Size:5 mg,25 mg
Soluble in DMSO

HIV Inhibitors

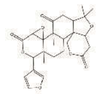
Potency Comparison

Inhibitors	HIV-1 Replication	HIV Reverse Transcriptase	CCR5-HIV-1 gp120	HIV-1 gp120
Dapivirine (TMC120)		*** (IC_{50}:24 nM)		
Efavirenz		**** (Ki:2.93 nM)		
Etravirine (TMC125)		*		
GS-7340		*		
Limonin	*			
Maraviroc			**** (IC_{50}:6.4 nM)	
Rilpivirine		***** (IC_{50}:0.73 nM)		
GS-7340 fumarate		*		
TAK-779			**** (IC_{50}:1.4 nM)	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3555 Limonin

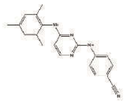
Limonin is a chemically-induced carcinogenesis inhibitor and HIV-1 replication inhibitor.



Size:100 mg,200 mg
Soluble in DMSO > 10 mM

A8554 Dapivirine (TMC120)

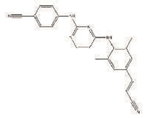
Dapivirine (TMC120) is a non-nucleoside inhibitor of HIV reverse transcriptase with an IC50 vaule of 24 nM.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

A3765 Rilpivirine

Rilpivirine is a second-generation non-nucleoside inhibitor of HIV-1 reverse transcriptase with IC50 value of 0.73 nM.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

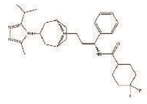
B1119 Efavirenz

Efavirenz is a highly potent inhibitor of human immunodeficiency virus type 1 reverse transcriptase with Ki value of 2.93 nM.

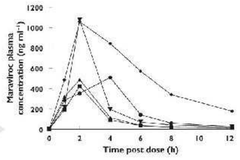
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO

A8311 Maraviroc

Maraviroc is an antagonist of CCR5 for MIP-1α, MIP-1β and RANTES with IC50 value of 3.3 nM, 7.2 nM and 5.2 nM, respectively.



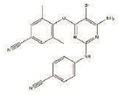
Size:5 mg,25 mg
Soluble in DMSO > 10 mM



Mean plasma concentrations of maraviroc in cohorts 1–4.

B2224 Etravirine (TMC125)

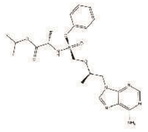
Etravirine (R165335; TMC125) is a non-nucleoside reverse transcriptase inhibitor (NNRTI) used for the treatment of HIV.



Size:10 mg,50 mg,1 g
Soluble in DMSO > 10 mM

B8021 GS-7340

GS-7340 (Tenofovir alafenamide) is a prodrug of tenofovir (TFV) that more efficiently delivers TFV into lymphoid cells and tissues than TFV disoproxil fumarate.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

HSV Inhibitors

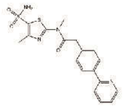
Potency Comparison

Inhibitors	HSV	HSV-1	HSV-2	HCMV
BAY 57-1293	*** (IC_{50}:12 nM)			
Ganciclovir				* (IC_{50}:3.79 μM)
Valaciclovir		*		
Fiacitabine		**** (IC_{50}:2.5 nM)	*** (IC_{50}:12.6 nM)	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

B1029 BAY 57-1293

BAY 57-1293 is a potent and safe inhibitor of HSV helicase-primase with IC50 value of 12 nM.



Size:5 mg,10 mg,25 mg,50 mg 100 mg
Soluble in DMSO > 10 mM

B2097 Ganciclovir

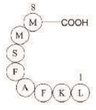
Ganciclovir (DHPG) is a potent antiviral drug used to treatment of cytomegalovirus (CMV) infections.

Size:50 mg,250 mg
Soluble in DMSO > 10 mM

Influenza A virus Inhibitor

A1075 Influenza A virus fragment

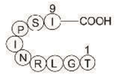
Influenzavirus A is a genus of the Orthomyxoviridae family of viruses.



Size:1 mg,5 mg,10 mg,25 mg

A1141 Hemagglutinin (332-340) [Influenza A virus]

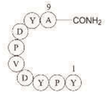
Influenza hemagglutinin (HA) is a type of hemagglutinin found on the surface of the influenza viruses.



Size:1 mg,5 mg,10 mg,25 mg

A1142 Hemagglutinin precursor (114-122) amide [Influenza A virus]

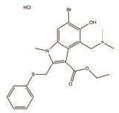
Hemagglutinin precursor(114-122) amide [Influenza A virus] .



Size:1 mg,5 mg,10 mg,25 mg

A8362 Arbidol HCl

Arbidol (Umifenovir) hydrochloride is an broad-spectrum antiviral chemical agent which can inhibit cell entry of enveloped viruses by blocking viral fusion with host cell membrane.

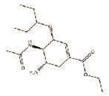


Size:10 mg, 100 mg
Soluble in DMSO > 10 mM

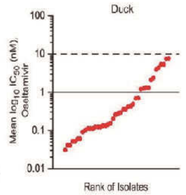
Neuraminidase Inhibitors

A3688 Oseltamivir

Oseltamivir is an inhibitor of influenza neuraminidase.



Size:10 mg,50 mg
Soluble in DMSO

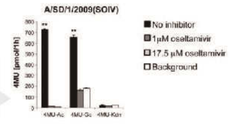


The IC50 ranges of oseltamivir for bird flu viruses.

A3689 Oseltamivir acid

Oseltamivir is an inhibitor of influenza neuraminidase.

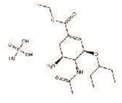
Size:10 mg,50 mg
Soluble in DMSO



Virus susceptibility to oseltamivir inhibition.

B1803 Oseltamivir phosphate

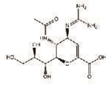
Oseltamivir phosphate (GS-4104) is a competitive neuraminidase inhibitor, which is an antiviral drug.



Size:10 mg,50 mg
Limited solubility

B2136 Zanamivir

Zanamivir is a selective inhibitor of influenza A and B virus neuraminidases with IC50 values of 0.64-7.9 nM.



Size:100 mg,1 g
Limited solubility

Reverse Transcriptase Inhibitors

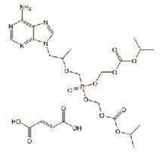
Potency Comparison

Inhibitors	Reverse Transcriptase	HIV Reverse Transcriptase
Didanosine	** (IC_{50}:0.49 μM)	
Emtricitabine	*	*
Entecavir Hydrate	*	
Lamivudine	* (IC_{50}:2.7 mM)	
Nevirapine	*	*
Tenofovir	*	*
Tenofovir Disoproxil Fumarate	*	*
Delavirdine	*	*
Delavirdine mesylate	*	
Lersivirine	** (IC_{50}:119 nM)	*
Zalcitabine	*	*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1755 Tenofovir Disoproxil Fumarate

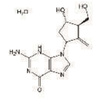
Tenofovir disoproxil fumarate is a nucleotide reverse transcriptase inhibitor that inhibits the replication of human immunodeficiency virus (HIV) in MT-2 cells and PBMC with the half maximal effective concentration EC50 values of 0.007 μmol/L and 0.005 μmol/L.



Size:25 mg,100 mg
Soluble in DMSO > 10 mM

A1767 Entecavir Hydrate

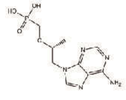
Entecavir hydrate is a reverse transcriptase inhibitor.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A5275 Tenofovir

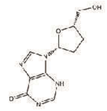
Tenofovir is a selectively inhibitor for HIV reverse transcriptase (RNA-dependent DNA polymerase).



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A8410 Didanosine

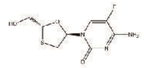
Didanosine is a Reverse Transcriptase inhibitor is 0.49 μM.



Size:10 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

A8422 Emtricitabine

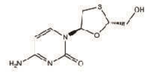
Emtricitabine is a nucleoside analogue which inhibits the reverse nucleoside transcriptase enzyme.



Size:50 mg
Soluble in DMSO > 10 mM

A8458 Lamivudine

Lamivudine is a potent nucleoside analog reverse transcriptase inhibitor (nRTI).



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8481 Nevirapine

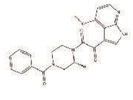
Nevirapine is a potent and selective non-nucleoside inhibitor of HIV-1 reverse transcriptase with IC50 value of 84 nM.

Size:10 mg
Soluble in DMSO > 10 mM

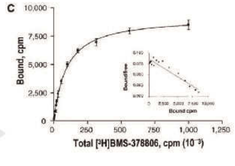
gp120/CD4 Inhibitor

B1533 BMS-378806

BMS-378806 is a selective inhibitor of HIV-1 CD4-gp120 interactions with an EC50 value of 0.85-26.5 nM.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



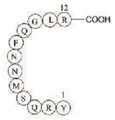
Binding affinity of BMS-378806 to gp120 by SPA.

Cancer Biology

Cancer Biology Peptides

A1001 Adrenomedullin (1-12), human

Adrenomedullin (AM) (1-12) was initially identified as a vasodilator, which has the ability to relax vascular tone.



Size:5 mg,10 mg,25 mg

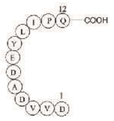
A1010 Myelopeptide-2 (MP-2)

Myelopeptide-2 (MP-2) (C41H57N7O8), with the sequence Leu-Val-Val-Tyr-Pro-Trp, is able to restore the mitogen responsiveness of human T lymphocytes.

Size:1 mg,5 mg,10 mg,25 mg

A1021 Epidermal Growth Factor Receptor Peptide (985-996)

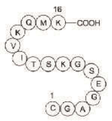
EGFR (epidermal growth factor receptor) exists on the cell surface and is activated by the binding of its specific ligands, including epidermal growth factor and transforming growth factor α.



Size:1 mg,5 mg,10 mg,25 mg

A1022 GTP-Binding Protein Fragment, G alpha

GTP-Binding Protein Fragment, G alpha hydrolyzes GTP to GDP.

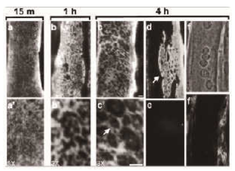


Size:1 mg,5 mg,10 mg,25 mg

A1023 Laminin (925-933)

Laminin (925-933) is a peptide (Cys-Asp-Pro-Gly-Tyr-Ile-Gly-Ser-Arg) derived from residues 925-933 of the laminin B1 chain that binds to the laminin receptor.

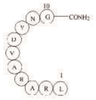
Size:1 mg,5 mg,10 mg,25 mg



Laminin binds to the myotube surface and forms a network.

A1028 Cadherin Peptide, avian

Cadherin Peptide, avian plays important roles in cell adhesion.



Size:1 mg,5 mg,10 mg,25 mg

A1029 Fas C- Terminal Tripeptide

Fas (APO-1/CD95) is a cell surface receptor, which is a member of the tumor necrosis factor receptor (TNFR) superfamily.

Size:1 mg,5 mg,10 mg,25 mg

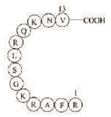
A1032 Adrenorphin

Adrenorphin (metorphamide) is a potent inhibitor of nicotine-induced adrenaline and noradrenaline release with IC50 value of 10 μM.

Size:5 mg,10 mg,25 mg

A1033 [Ser25] Protein Kinase C (19-31)

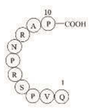
Protein Kinase C known as PKC, is a family of protein kinase enzymes that are involved in controlling the function of other proteins through the phosphorylation of hydroxyl groups of serine and threonine amino acid residues on these proteins.



Size:1 mg,5 mg,10 mg,25 mg

A1046 Dynamin inhibitory peptide

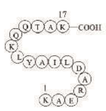
Dynamin Inhibitory Peptide is a peptide (Gln-Val-Pro-Ser-Arg-Pro-Asn-Arg-Ala-Pro) inhibitor of the GTPase dynamin.



Size:1 mg,5 mg,10 mg,25 mg
Soluble to 1 mg/ml in sterile water

A1061 Cytochrome c - pigeon (88-104)

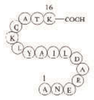
The I-Ek-restricted T cell response to Cytochrome c - pigeon (pcyt c) is specific for a peptide within the COOH-terminal sequence 88-104.



Size:1 mg,5 mg,10 mg,25 mg

A1062 Cytochrome c fragment (93-108)

The Cytochrome c, a small heme protein found loosely associated with the inner membrane of the mitochondrion, initiates apoptosis.



Size:1 mg,5 mg,10 mg,25 mg

A1063 Cytochrome P450 CYP1B1 (190-198) [Homo sapiens]

Cytochrome P450 CYP1B1 is a dioxin-inducible form of the cytochrome P450 family of xenobiotic metabolizing enzymes.

Size:1 mg,5 mg,10 mg,25 mg

A1066 ErbB-2

ErbB-2 is a transmembrane, tyrosine kinase (TK) receptor whose overexpression is associated with adverse prognosis in breast cancer.

Size:1 mg,5 mg,10 mg,25 mg

A1069 Ferritin heavy chain fragment [Multiple species]

The heavy chain of Ferritin possesses ferroxidase activity.

Size:1 mg,5 mg,10 mg,25 mg

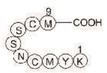
A1079 MAP kinase fragment [Multiple species]

This MAP kinase fragment [Multiple species], with the sequence Lys-Tyr-Ile-His-Ser-Ala-Asn-Val-Leu, is a serine/threonine-specific protein kinases belonging to the CMGC kinase group.

Size:1 mg,5 mg,10 mg,25 mg

A1083 p53 tumor suppressor fragment

p53 tumor suppressor fragment (232-240) (C41H67N11O14S4), is a peptide with the sequence H2N-Lys-Tyr-Met-Cys-Asn-Ser-Ser-Cys-Met-OH, MW= 1066.3.



Size:1 mg,5 mg,10 mg,25 mg
Soluble in Water

A1085 Prostate apoptosis response protein PAR-4 (2-7) [Homo sapiens]

Prostate apoptosis response protein PAR-4 (2-7) [Homo sapiens], (C26H41N9O9), is a peptide with the sequence H2N-Ala-Thr-Gly-Gly-Tyr-Arg-OH, MW= 623.66.

Size:1 mg,5 mg,10 mg,25 mg

A1086 Rac GTPase fragment

Rac GTPase fragment, (C46H74N12O14), is a peptide with the sequence H2N-Val-Phe-Asp-Glu-Ala-Ile-Arg-Ala-Val-OH, MW= 1019.15.

Size:1 mg,5 mg,10 mg,25 mg

A1090 Signal transducer and activator of transcription 6 fragment

Signal transducer and activator of transcription 6 fragment (C54H81N13O15), is a peptide with the sequence H2N-Ser-Tyr-Trp-Ser-Asp-Arg-Leu-Ile-Ile-OH, MW= 1152.3.

Size:1 mg,5 mg,10 mg,25 mg

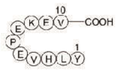
A1092 Survivin (baculoviral IAP repeat-containing protein 5) (21-28)

Survivin (baculoviral inhibitor of apoptosis IAP repeat-containing protein-5) is a member of the IAP gene family, which has been implicated in both inhibition of apoptosis and mitosis regulation.

Size:1 mg,5 mg,10 mg,25 mg

A1094 Tumor protein p53 binding protein fragment [Homo sapiens]/[Mus musculus]

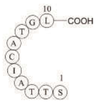
P53 is a sequence-specific DNA-binding oligomeric protein that can activate transcription from promoters bearing p53-binding sites.



Size:1 mg,5 mg,10 mg,25 mg

A1097 Ubiquitin specific protease 3 fragment

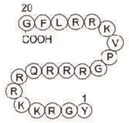
The ubiquitin specfic protease 3 USP3 is a deubiquitinating enzyme for uH2A and uH2B.



Size:1 mg,5 mg,10 mg,25 mg

A1107 CDK2/Cyclin Inhibitory Peptide I

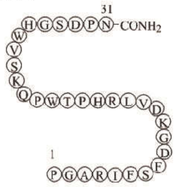
CDK2 acts as a checkpoint for the G(1)/S transition in the cell cycle.



Size:1 mg,5 mg,10 mg,25 mg
Soluble in water or 1% acetic acid

A1109 Endostatin (84-114)-NH2 (JKC367)

Endostatin, a 20kDa C-terminal fragment of collagen XVIII, is a potent inhibitor of primary tumor growth and endothelial cell proliferation and migration.



Size:1 mg,5 mg,10 mg,25 mg
Soluble in water or 1% acetic acid

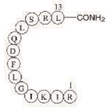
A1118 S6 Kinase Substrate Peptide 32

S6 Kinase Substrate Peptide 32 is a peptide that measures the activity of kinases that phosphorylate ribosomal protein S6.

Size:1 mg,5 mg,10 mg,25 mg

A1132 β-Pompilidotoxin

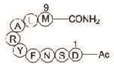
β-Pompilidotoxin (C71H124N22O17), is a peptide with the sequence H2N-Arg-Ile-Lys-Ile-Gly-Leu-Phe-Asp-Gln-Leu-Ser-Arg-Leu-amide, MW= 1557.88. Pompilidotoxin is a toxin that slows the inactivation of Na+ channels.



Size:1 mg,5 mg,10 mg,25 mg
Soluble to 1 mg/ml in sterile water

A1133 Epidermal growth factor receptor (994-1002) acetyl/amide

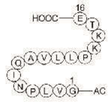
The epidermal growth factor receptor (EGFR; ErbB-1; HER1 inhumans) is the cell-surface receptor for members of the epidermal growth factor family (EGF-family) of extracellular protein ligands.



Size:1 mg,5 mg,10 mg,25 mg

A1146 Histone-H2A-(107-122)-Ac-OH

Histone-H2A-(107-122)-Ac-OH (C81H140N20O23), is a peptide with the sequence Ac-Gly-Val-Leu-Pro-Asn-Ile-Gln-Ala-Val-Leu-Leu-Pro-Lys-Lys-Thr-Glu-OH, MW= 1762.1.



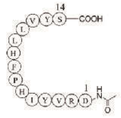
Size:1 mg,5 mg,10 mg,25 mg

Cardiovascular

Cardiovascular Biology Peptides

A1034 Acetyl Angiotensinogen (1-14), porcine

Acetyl Angiotensinogen (1-14),porcine, (C87H125N21O21) is a peptide with the sequence AC-ASP-ARG-VAL-TYR-ILE-HIS-PRO-PHE-HIS-LEU-LEU-VAL-TYR-SER-OH, MW= 1801.05.



Size:5 mg,10 mg,25 mg

A1036 Thrombin Receptor Activator for Peptide 5 (TRAP-5)

Thrombin Receptor Activator for Peptide 5 (TRAP-5),(C30H50N8O7), a peptide with the sequence NH2-Ser-Phe-Leu-Leu-Arg-COOH, MW= 634.76.

Size:5 mg,10 mg,25 mg

A1041 Angiotensin (1-7)

Angiotensin (1-7) is a vasoconstriction peptide hormone.

Size:5 mg,10 mg,25 mg
Soluble to 1 mg/ml in 20% acetonitrile

A1042 Angiotensin II

Angiotensin II is an octapeptide that plays important roles in mediating hypertension, heart failure, cardiac remodeling, diabetes, and the proliferative and inflammatory responses to arterial injury.

Size:5 mg,10 mg,25 mg,250 mg
Soluble in Water

A1043 Angiotensin III (human, mouse)

Angiotensin III (Asp | Arg-Val-Tyr-Ile-His-Pro-Phe) is a hexapeptide formed as a result of a cleavage at the N-terminus of Angiotensin II, a key factor in the Renin-Angiotensin-Aldosterone (RAAS) system by angiotensinases located in red blood cells and the vascular beds of most tissues.

Size:5 mg,10 mg,25 mg
Soluble to 2 mg/ml in sterile water

A1047 Angiotensin 1/2 (1-5)

Angiotensin I/II (1-5) is a peptide (ASP-ARG-VAL-TYR-ILE) that contains the amino acids 1-5 and is converted from Angiotensin I/II.

Size:5 mg,10 mg,25 mg

A1048 Angiotensin 1/2 (1-6)

Angiotensin I/II (1-6) is a peptide (ASP-ARG-VAL-TYR-ILE-HIS) that contains the amino acids 1-6 and is converted from Angiotensin I/II peptide.

Size:5 mg,10 mg,25 mg

A1054 Angiotensin 1/2 (1-7) amide

Angiotensin I/II (1-7) amide (H2N-Asp-Arg-Val-Tyr-Ile-His-Pro-amide) is a peptide analog to angiotensin II that is used as a vasopressor in the treatment of certain types of shock and circulatory collapse.

Size:1 mg,5 mg,10 mg,25 mg

A1055 Angiotensin 1/2 (1-8) amide

Angiotensin 1/2 (1-8) amide (H2N-Asp-Arg-Val-Tyr-Ile-His-Pro-Phe-amide) is a peptide analogue to angiotensin II that is used as a vasopressor agent in the treatment of certain types of shock and circulatory collapse.

Size:1 mg,5 mg,10 mg,25 mg

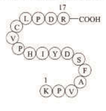
A1056 Angiotensin 1/2 + A (2 - 8)

Angiotensin 1/2 + A (2 - 8) (H2N-Ala-Arg-Val-Tyr-Ile-His-Pro-Phe-OH), is a potent endogenous vasoconstrictor peptide; derivative of angiotensin (Ang) II.

Size:1 mg,5 mg,10 mg,25 mg

A1057 Coagulation factor II (thrombin) B chain fragment [Homo sapiens]

Thrombin (H2N-Lys-Pro-Val-Ala-Phe-Ser-Asp-Tyr-Ile-His-Pro-Val-Cys-Leu-Pro-Asp-Arg-OH) is a "trypsin-like" serine protease that is encoded by the F2 gene in humans.



Size:1 mg,5 mg,10 mg,25 mg

A1058 Prothrombin (474-477) [Mus musculus]

Prothrombin (coagulation factor II) (H2N-Tyr-Ile-His-Pro-OH) is produced in the liver and is post-translationally modified in a vitamin K-dependent reaction that converts ten glutamic acids on prothrombin into gamma-carboxyglutamic acid (Gla).

Size:1 mg,5 mg,10 mg,25 mg

A1143 Heparin cofactor II precursor (SERPIND1) fragment [Homo sapiens]

Heparin cofactor II precursor (SERPIND1) fragment [Homo sapiens] is a potent thrombin inhibitor.

Size:1 mg,5 mg,10 mg,25 mg

A1144 Heparin cofactor II precursor fragment [Homo sapiens]

Heparin cofactor II(HCII), a protein encoded by the SERPIND1 gene, is a coagulation factor that inhibits IIa, and is a cofactor for heparin and dermatan sulfate.

Size:1 mg,5 mg,10 mg,25 mg

Others

VD/VDR Inhibitors

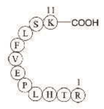
Potency Comparison

Inhibitors	VD Analogue	VDR
Alfacalcidol		*
Calcipotriol	*	
Doxercalciferol		*
Calcifediol	*	
Paricalcitol-D6	*	
Calcitriol Derivatives		*
Lexacalcitol	*	
Impurity B of Calcitriol		*
Impurity C of Alfacalcidol		*
Alfacalcidol-D6		*
VD2-D3	*	
Vitamin D4	*	

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A1099 Vitamin D binding protein precursor (353-363) [Homo sapiens]

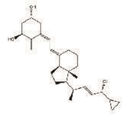
Human vitamin D-binding protein (hDBP), also known as Gcglobulin, is an abundant, multifunctional, and highly polymorphic serum glycoprotein synthesized by the liver1.



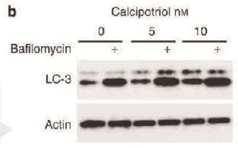
Size:1 mg,5 mg,10 mg,25 mg

A3271 Calcipotriol

Calcipotriol is an analogue of vitamin D3.



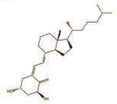
Size:10 mg,50 mg,100 mg,500 mg
Soluble in DMSO > 10 mM



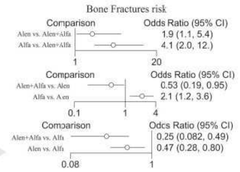
Calcipotriol affects levels of Atg5–Atg12 conjugate in HeLa cells.

B2153 Alfacalcidol

Alfacalcidol is an analogue of Vitamin D and a potent inhibitor of bone resorption.



Size:5 mg,10 mg,25 mg,100 mg
500 mg
Soluble in DMSO > 10 mM



Forest plot of the network meta-analysis for bone fractures risk.

CaM Kinase II Inhibitors

Potency Comparison

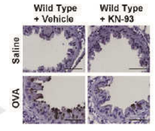
Inhibitors	CaM Kinase II
KN-62	** (Ki:0.9 μM)
KN-93	** (Ki:370 nM)

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3532 KN-93

KN-93 is a selective and competitive inhibitor of Ca2+/calmodulin-dependent kinase type II (CaMKII) with Ki value of 370 nM.

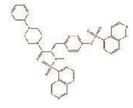
Size:1 mg,5 mg,10 mg,25 mg
Soluble in DMSO > 10 mM



Inhalation of KN-93 reduces disease severity.

A8180 KN-62

KN-62 is a potent and specific inhibitor of Ca2+/calmodulin-dependent protein kinase II (CaMKII) with Ki value of 0.9 μM.



Size:1 mg,5 mg,25 mg
Soluble in DMSO > 10 mM

FXR Activators

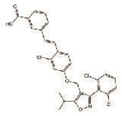
Potency Comparison

Activators	FXR
GW4064	*** (IC_{50}:15 nM)
Obeticholic Acid	*** (IC_{50}:99 nM)
XL335	**** (EC_{50}:4 nM)
Chenodeoxycholic Acid	*

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

B1527 GW4064

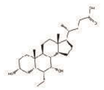
GW4064 is an agonist of FXR with EC50 values of 15 nM and 90 nM, respectively in an isolated receptor activity assay and in cells transfected with human FXR.



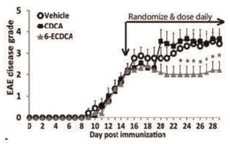
Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

B4888 Obeticholic Acid

Obeticholic Acid (6alpha-ethyl-chenodeoxycholic acid, 6-ECDCA, INT-747) is a potent and selective agonist of FXR with EC50 value of 99 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



Effect of Obeticholic acid (6-ECDCA) in treating EAE.

ATP Citrate Lyase Inhibitor

B1079 BMS-303141

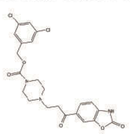
BMS-303141 is a potent inhibitor of ATP-citrate lyase with IC50 value of 0.13 μM.

Size:10 mg,25 mg,50 mg
Limited solubility

Autotaxin Inhibitor

A3720 PF-8380

PF-8380 is a potent and specific inhibitor of autotaxin with an IC50 value of 2.8 nM in isolated enzyme assay.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

Glycoproteins

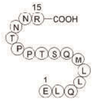
A1018 Platelet Membrane Glycoprotein IIB Peptide (296-306)

Human alloantisera specific for either the Bak' or Bakb allele have been shown to react exclusively with the heavy chain of membrane glycoprotein (GP) IIb.

Size:1 mg,5 mg,10 mg,25 mg

A1136 Fusion Glycoprotein (92-106) [Human respiratory syncytial virus]

Glycoproteins are proteins that contain oligosaccharide chains (glycans) covalently attached to polypeptide side-chains.



Size:1 mg,5 mg,10 mg,25 mg

A1138 Glycoprotein B (485-492)

Glycoprotein B is a viral glycoprotein that is involved in the viral cell entry of Herpes simplex virus (HSV).

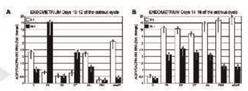
Size:1 mg,5 mg,10 mg,25 mg

Adenylate cyclase Inhibitor

B1421 Forskolin

Forskolin is a cell-permeable activator of adenylyl cyclase (AC).

Size:25 mg,50 mg,100 mg
Soluble in DMSO > 10 mM



AQP1 mRNA and protein expression in porcine endometrial explants.

DHODH Inhibitor

B1850 Teriflunomide

Teriflunomide (A77 1726) is an emerging oral therapy for multiple sclerosis (MS).

Size:10 mg,100 mg
Soluble in DMSO > 10 mM

LXR Activators

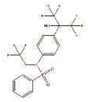
Potency Comparison

Activators	LXR	LXRα	LXRβ	FXR
GW3965 HCl		** (EC_{50}:190 nM)	*** (EC_{50}:30 nM)	
LXR-623		** (IC_{50}:179 nM)	*** (IC_{50}:24 nM)	
SR-9243	*			
T0901317		**** (Kd:7 nM)	*** (Kd:22 nM)	
Fexaramine				*** (EC_{50}:25 nM)

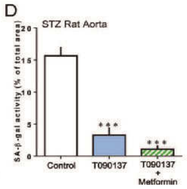
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A2249 T0901317

T0901317 is an agonist for multiple targets, which possesses EC50 values of 20 nM and 5 μM for LXRα and FXR, respectively.



Size:25 mg,100 mg
Soluble in DMSO > 10 mM



T0901317 and metformin improve vascular endothelial senescence.

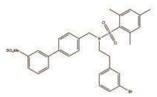
A8444 GW3965 HCl

GW3965 HCl is a selective, orally active non-steroidal agonist for the liver X receptor (LXR).

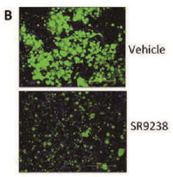
Size:5 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

A8714 SR-9243

SR9243 is a liver-X-receptor (LXR) inverse agonist that induces LXR-corepressor interaction.



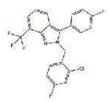
Size:10 mg,50 mg,200 mg
Soluble in DMSO



SR9238 reduces hepatic lipids in NASH mice.

B1264 LXR-623

LXR-623 is an agonist of liver X-receptor with IC50 values of 179 nM and 24 nM for LXR-α and LXR-β, respectively.

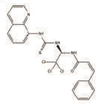


Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

eIF2a Inhibitor

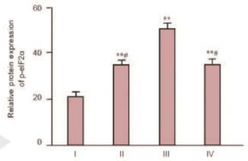
B2025 Salubrinal

Salubrinal is a cell-permeable and selective inhibitor of eIF2α dephosphorylation with an IC50 of 15 M.



Size:10 mg,25 mg
Soluble in DMSO > 10 mM

Product Citation:
Neural Regen Res. (2015)
PMID: 26487850



Effect of salubrinal on eIF2α protein expression.

GLI Inhibitor

A3429 GANT 58

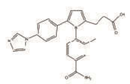
GANT 58 is an antagonist of GLI that inhibits GLI1-induced transcription with an IC50 value of 5 μM.

Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

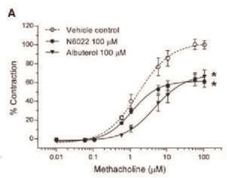
GSNOR Inhibitor

B1111 N6022

N6022 is a specific and fully reversible inhibitor of S-nitrosoglutathione reductase (GSNOR) with IC50 value of 8 nM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



N6022 attenuates MCh-induced contraction.

Hexokinase Inhibitor

B1027 2-Deoxy-D-glucose

2-Deoxy-D-glucose (2DG), glucose analogue, is a competitive glycolytic inhibitor.

Size:1 g,5 g
Soluble in DMSO > 10 mM

Others

RAR/RXR Activators

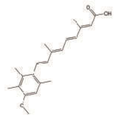
Potency Comparison

Activators	RAR	RARα	RARβ	RARγ
Fenretinide	*			
Acitretin	*			
Tretinoin (Aberela)		*	*	*
TTNPB (Arotinoid Acid)		**** (IC_{50}:3.8 nM)	**** (IC_{50}:4 nM)	**** (IC_{50}:4.5 nM)
AGN 205327		* (EC_{50}:3766 nM)	** (EC_{50}:734 nM)	*** (EC_{50}:32 nM)
Palovarotene				*
AM580		*		
Tamibarotene		***** (EC_{50}:0.79 nM)		
Tazarotene			*	*
CD 2314			** (Kd:145 nM)	
BMS 753		**** (Ki:2 nM)		

Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A2415 Acitretin

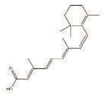
Acitretin is a synthetic retinoid, the major metabolite of etretinate.



Size:25 mg,100 mg
Soluble in DMSO > 10 mM

A8539 Tretinoin (Aberela)

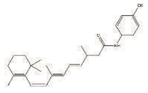
Tretinoin (Aberela) is retinoic acid in pharmaceutical form and used to treat acne vulgaris and keratosis pilaris.



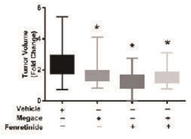
Size:50 mg
Soluble in DMSO > 10 mM

A3412 Fenretinide

Fenretinide (4HPR) is an inhibitor of focal adhesion kinase (FAK).



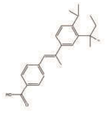
Size:10 mg,50 mg
Soluble in DMSO > 10 mM



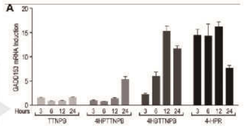
Effect of fenretinide on endometrial tumor progression.

B2058 TTNPB (Arotinoid Acid)

TTNPB (Arotinoid Acid) is an agonist of RAR with IC50 values of 3.8 nM, 4 nM and 4.5 nM for RARα, RARβ and RARγ, respectively.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

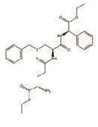


Effects of TTNPB and analogues on markers of ER stress.

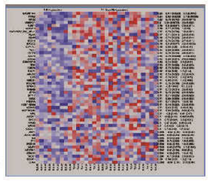
GSTP1-1 Inhibitor

A8225 Ezatiostat

Ezatiostat (TER199; TLK199) is a glutathione analog inhibitor of glutathione S-transferase (GST) P1-1.



Size:5 mg,10 mg,25 mg,50 mg 100 mg
Soluble in DMSO

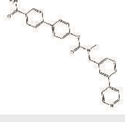


The gene-set profile of patients who respond to ezatiostat.

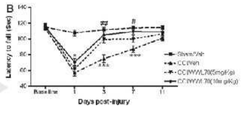
Hydroxylases Inhibitor

A8891 WWL 70

WWL 70 is a potent inhibitor of α/β-hydrolase domain 6 (ABHD6) with IC50 value of 70 nM.



Size:5 mg,10 mg,50 mg
Limited solubility



WWL70 improved TBI-induced alterations in motor coordination.

SGK Inhibitors

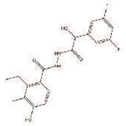
Potency Comparison

Inhibitors	SGK1
EMD638683	* (IC_{50}:3 μM)
GSK 650394	*** (IC_{50}:13 nM)
EMD638683 R-Form	* (IC_{50}:3 μM)
EMD638683 S-Form	* (IC_{50}:3 μM)

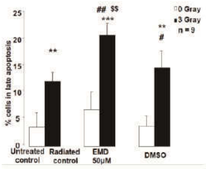
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3389 EMD638683

EMD638683 is a highly selective inhibitor of the serum and glucocorticoid inducible kinase (SGK) with IC50 value of 3 μM.



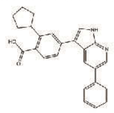
Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO



Effects of radiation and EMD638683 on apoptosis of CaCo-2 cells.

B1051 GSK 650394

GSK 650394 is a small molecule inhibitor of serum and glucocorticoid-regulated kinase 1 (SGK1) with IC50 value of 13 nM.



Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

iNOS Inhibitor

B6730 1400W dihydrochloride

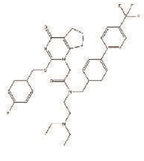
1400W dihydrochloride is a potent and selective inhibitor of inducible nitric oxide synthase with Kd value of 7 nM.

Size:10 mg,50 mg,100 mg
Soluble to 100 mM in sterile water

Lp-PLA2 Inhibitor

A3349 Darapladib

Darapladib (SB-480848) is a reversible inhibitor of lipoprotein-associated phospholipase A2 (Lp-PLA2) with IC50 of 0.25 nM.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

β(1,3)-D-Glucan Synthase Inhibitors

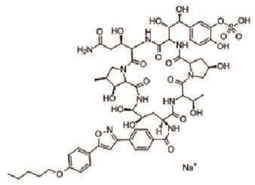
Potency Comparison

Inhibitors	β(1,3)-D-Glucan Synthase
Caspofungin Acetate	*
Micafungin sodium	*

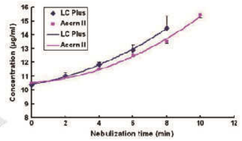
Notes: "*" represents potency. The higher the number of "*" is, the more potent an inhibitor or activator is. For more products information, please visit our website <www.apexbt.com>

A3606 Micafungin sodium

Micafungin is an antifungal agent.



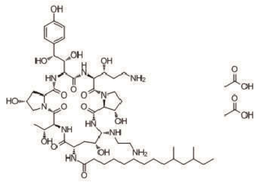
Size:5 mg,10 mg,25 mg,50 mg
Soluble in water



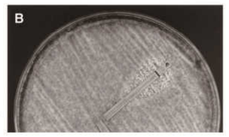
Nebulization time on the concentration of micafungin sodium.

B2083 Caspofungin Acetate

Caspofungin Acetate is a potent antifungal agent with MIC values of 13 and 25 nM for C. Albicans and C. Krusei, resepectively.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM



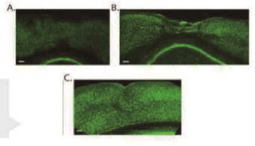
Caspofungin Etest MIC of 0.5 μg/ml for an isolate of A. fumigatus.

Kainate Receptors Inhibitor

B6226 Kainic acid

Kainic acid is a selective agonist of kainate receptor.

Size:1 mg,10 mg,50 mg
Soluble to 25 mM in sterile water



Gabapentin protects against cortical tissue loss.

Others

Bioactive Peptides Inhibitors

A1037 TRH Precursor Peptide

TRH (thyrotropin-releasing hormone) regulates TSH biosynthesis in anterior pituitary gland.

Size:5 mg,10 mg,25 mg

A1050 Angiotensin 1/2 (2-7)

Angiotensin I/II (2-7) is a peptide (ARG-VAL-TYR-ILE-HIS-PRO) that contains the amino acids 2-7 and is converted from Angiotensin I/II peptide.

Size:5 mg,10 mg,25 mg

A1067 Eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) (387-394) [Multiple species]

EEF1A1 encodes an isoform of the alpha subunit of the elongation factor-1 complex, which is responsible for the enzymatic delivery of aminoacyl tRNAs to the ribosome.

Size:1 mg,5 mg,10 mg,25 mg

A1068 Eukaryotic translation initiation factor 3

Eukaryotic translation initiation factor 3 is an eukaryotic translation initiator.

Size:1 mg,5 mg,10 mg,25 mg

A1077 Lamin fragment

Lamin fragment has a peptide sequence of Lys-Ala-Gly-Gln-Val-Val-Thr-Ile-Trp.

Size:1 mg,5 mg,10 mg,25 mg

A1078 Large T antigen - rhesus polyomavirus 560-568

Large T antigen - rhesus polyomavirus 560-568 has a peptide sequence of Ser-Glu-Phe-Leu-Leu-Glu-Lys-Arg-Ile, which is required for viral DNA replication, transcription, and virion assembly.

Size:1 mg,5 mg,10 mg,25 mg

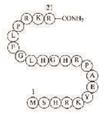
A1080 matrix protein (3-15) [Zaire ebolavirus]

Matrix protein (3-15) is a peptide of the structure proteins linking the viral envelope with the Zaireebola virus core.

Size:1 mg,5 mg,10 mg,25 mg

A1088 Ribosomal protein L3 peptide (202-222) amide

Ribosomal protein L3 peptide (202-222),(C114H182N42O25S), a peptide with the sequence H2N-Met-Ser-His-Arg-Lys-Tyr-Glu-Ala-Pro-Arg-His-Gly-His-Leu-Gly-Phe-Leu-Pro-Arg-Lys-Arg-amide, MW=2573.



Size:1 mg,5 mg,10 mg,25 mg

A1095 Type I hair keratin fragment [Homo sapiens]/[Ovis aries]/[Rattus norvegicus]

The various type I hair keratin antibodies proved to be highly specific in that they recognized only single protein bands when analyzed in western blot of one dimensionally resolved human hair keratins.

Size:1 mg,5 mg,10 mg,25 mg

A1098 Vitamin D binding protein precrusor (208-218) [Homo sapiens]/[Oryctolagus cuniculus]

Vitamin D-binding protein (DBP) is a multifunctional, highly expressed, polymorphic serum protein.

Size:1 mg,5 mg,10 mg,25 mg

A1115 Peptide YY(3-36), PYY, human

Peptide YY (PYY) is a short (36-amino acid) peptide released by cells in the ileum and colon in response to feeding.

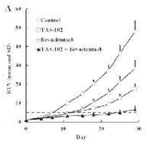
Size:1 mg,5 mg,10 mg,25 mg
Soluble to 1 mg/ml in sterile water

Thymidine phosphorylase Inhibitor

A3875 Tipiracil hydrochloride

Tipiracil hydrochloride is an inhibitor of thymidine phosphorylase.

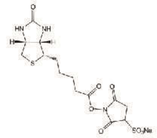
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO



Relative volume change in human SW48 colorectal tumors.

Biotinylation Reagents

A8001 Sulfo-NHS-Biotin

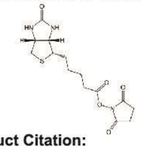


Size:100 mg,1 g
Dissolve protein at a concentration of 1 - 10 mg/mL in 100 mM sodium phosphate buffer, pH 7.0 - 7.5.

Sulfo-NHS-biotin leakage in a Ctnnb1CKO/CKO Pdgfb-CreER brain.

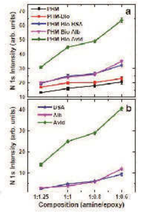
A8002 NHS-Biotin

NHS-Biotin is the simplest NHS-ester activated biotinylation reagent used for intracellular labeling.



Size:100 mg,1 g
Soluble in DMSO

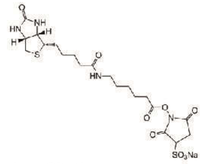
Product Citation:
Phys Chem Chem Phys. (2016). PMID: 27067511



The N is intensities for PHMs functionalized with NHS-biotin.

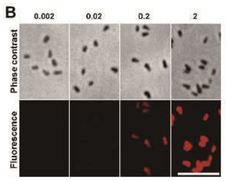
A8003 Sulfo-NHS-LC-Biotin

Sulfo-NHS-LC-Biotin is an intermediate length, water-soluble biotinyltation reagent used to attach biotin to primary amines.



Size:100 mg,1 g
Soluble in Water

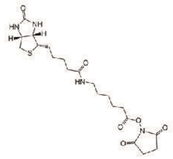
Product Citation:
J Bacteriol. (2012) PMID: 22923591



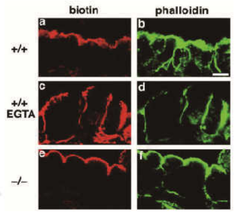
Biotinylated cells stained with streptavidin-Cy3.

A8004 NHS-LC-Biotin

NHS-LC-Biotin is an amine-reactive biotinylation agent.



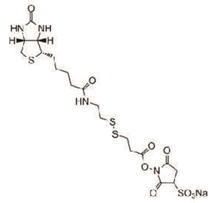
Size:100 mg,1 g
H2O: ≤2 mg/mL with sonication



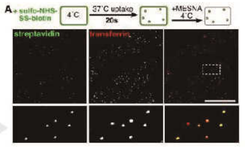
Occludin-deficient epithelial cells are treated with NHS-LC-Biotin.

A8005 Sulfo-NHS-SS-Biotin

Sulfo-NHS-SS-Biotin is a water-soluble, NHS-ester biotinylation reagent.



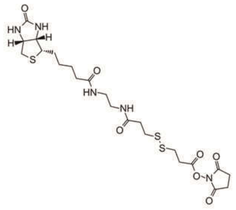
Size:100 mg,1 g
Soluble in Water



Images of membrane proteins labelled with sulfo-NHS-SS-biotin.

A8006 NHS-SS-Biotin

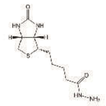
NHS-SS-Biotin is a cell-permeable and amine-reactive biotinylation reagent.



Size:100 mg,1 g
Soluble in Water

A8007 Biotin Hydrazide

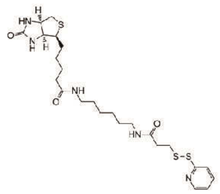
Biotin Hydrazide is a biotinylation reagent used to biotinylate glycoproteins and glycolipids.



Size:100 mg,1 g
Dissolve glycoprotein at a concentration of 1-5 mg/mL in cold 100 mM sodium acetate, pH 5.5.

A8008 Biotin-HPDP

Biotin-HPDP is a sulfhydryl-reactive biotinylation agent.

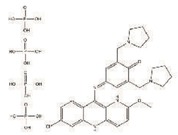


Size:10 mg,50 mg,100 mg
Soluble in Water
Product Citation:
PNAS. (2016). PMID: 26903618

MDR multidrug resistance Inhibitor

A1931 Pyronaridine Tetraphosphate

Pyronaridine Tetraphosphate is a common antimalarial agent.

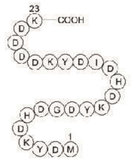


Size:100 mg,250 mg
Soluble in Water

Tag Peptides

A6001 3X FLAG Peptide

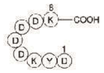
3X FLAG Peptide is a synthetic peptide with a 3-time repeated DYKXXD motif.



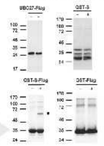
Size:4 mg,25 mg
Soluble in water or 1% acetic acid
Product Citation:
J Biol Chem.(2016).
PMID: 27235397

A6002 FLAG Tag Peptide

FLAG tag Peptide is a 8 amino acid peptide with an enterokinase-cleavage site used for the purification of recombinant proteins.



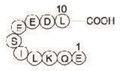
Size:4 mg,25 mg
Soluble in water or 1% acetic acid



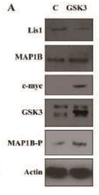
In vitro sumoylation of protein tags.

A6003 c-Myc Tag Peptide

c-Myc tag Peptide is a synthetic peptide corresponding to the C-terminal amino acids (410-419) of human c-myc protein.



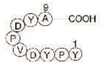
Size:5 mg,25 mg
Soluble in water or 1% acetic acid



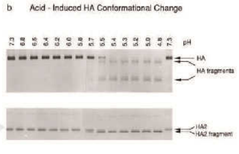
GSK3 regulates the interaction of MAP1B with LIS1.

A6004 Influenza Hemagglutinin (HA) Peptide

Influenza Hemagglutinin (HA) Peptide is a tag peptide derived from an epitope of the influenza hemagglutinin protein.



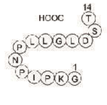
Size:5 mg,25 mg
Soluble in water or 1% acetic acid



Membrane-fusion activation and the HA conformational change.

A6005 V5 Epitope Tag Peptide

V5 Epitope Tag Peptide is a tag peptide derived from a small epitope present on the P and V proteins of the paramyxovirus of simian virus 5.



Size:5 mg,25 mg
Soluble in water or 1% acetic acid

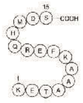
A6006 Hexa His Tag Peptide

Hexa His tag peptide is a 6 x His tag used as a metal binding site for the recombinant protein.

Size:5 mg,25 mg
Soluble in water or 1% acetic acid

A6007 S Tag Peptide

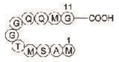
S Tag Peptide is an oligopeptide derived from pancreatic ribonuclease A used for improving protein solubility.



Size:5 mg,25 mg
Soluble in water or 1% acetic acid

A6008 T7 Tag Peptide

T7 Tag Peptide is a 11 amino acid peptide derived from the T7 major capsid protein .



Size:5 mg,25 mg
Soluble in water or 1% acetic acid

A6009 VSV-G Peptide

VSV-G Peptide is a 11 amino acid peptide derived from the Vesicular Stomatitis viral glycoprotein.

Size:5 mg,25 mg
Soluble in water or 1% acetic acid

A6010 X-press Tag Peptide

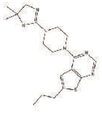
X-press Tag Peptide is a tag peptide used for protein purification.

Size:5 mg,25 mg
Soluble in water or 1% acetic acid

Menin-MLL Inhibitor

A3602 MI-2

MI-2 is a Menin-MLL inhibitor with IC50 value of 0.45 μM.

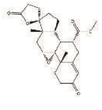


Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

Mineralocorticoid Receptor Inhibitor

A8424 Epleremone

Eplerenone is a potassium-sparing diuretic that selectively blocks aldosterone activation of the mineralcorticoid receptor (IC50 = 122 nM)



Size:10 mg,25 mg
Limited solubility

MGMT Inhibitor

B5974 O6-Benzylguanine

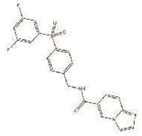
O6-Benzylguanine (BG) is a potent inhibitor of MGMT and an antineoplastic agent.

Size:50 mg,250 mg,1 g
Soluble in DMSO

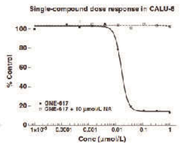
Nampt Inhibitor

B1271 GNE-617

GNE-617 is a potent and competitive inhibitor of Nampt with IC50 value of 5 nM.



Size:5 mg,10 mg,25 mg,50 mg 100mg
Soluble in DMSO

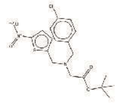


Response of a cancer cell line to GNE-617.

Nuclear Receptors Inhibitor

B7460 GSK 4112

GSK4112 is a synthetic antagonist of the Nuclear Heme Receptor REV-ERB with IC50 value of 2.3 μM.

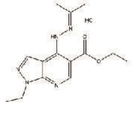


Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

Phosphodiesterases Inhibitor

B6304 Etazolate hydrochloride

Etazolate hydrochloride is a phosphodiesterase inhibitor, selective for PDE4 (IC50 = 2.0 μM).

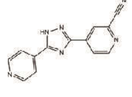


Size:10 mg,50 mg
Soluble to 50 mM in sterile water

XAO Inhibitor

B1192 Topiroxostat

Topiroxostat (FYX-051) is a novel and potent xanthine oxidoreductase (XOR) inhibitor with IC50 value of 5.3 nM.



Size:5 mg,10 mg,50 mg
Soluble in DMSO

Others Inhibitors

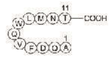
A1011 Beta-Casomorphin (1-3)

Beta-Casomorphin (1-3), (C23H27N3O5), is a tri-peptide with the sequence H2N-Tyr-Pro-Phe-OH, MW= 425.48.

Size:10 mg,25 mg

A1019 Glucagon (19-29), human

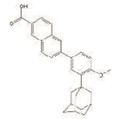
Glucagon (19-29), human, is a potent Ca^{2+}/Mg^{2+}-ATPase inhibitor.



Size:5 mg,10 mg,25 mg
Soluble in Water

A1267 Adapalene

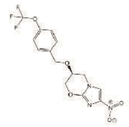
Adapalene is a retinoic acid analog that is a RARβ and RARγ agonist (AC50 values are 2.2, 9.3, 22 and > 1000 nM for RARβ, RARγ, RARα and RXRα receptors respectively).



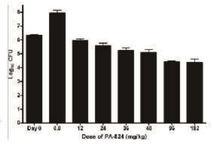
Size:50 mg,100 mg
Limited solubility

A1736 PA-824

PA-824 is an anti-tuberculosis drug with MIC value of < 2.8 μM.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



Bactericidal effect of PA-824 in a murine model of tuberculosis.

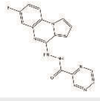
A1932 (-)-Huperzine A

(-)-Huperzine A (HupA) is an acetylcholinesterase (AChE) inhibitor with an IC50 value of 82 nmol/L and acts as an antagonist of the N-methyl-d-aspartate (NMDA) receptor.

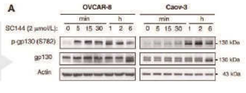
Size:10 mg,25 mg
Limited solubility

A2173 SC 144

SC144 is an inhibitor of gp130 with IC50 values of 0.43 μmol/L and 0.88 μmol/L in NCI/ADR-RES and HEY cell lines, respectively.



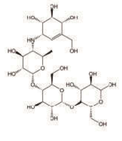
Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM



SC 144 induces phosphorylation of gp130.

A2431 Acarbose

Acarbose is an inhibitor of intestinal α-glucosidase (IC50 = 11 nM).



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

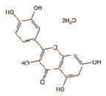
A2456 Pamidronate Disodium

Pamidronate Disodium is a bisphosphonate antiresorptive agent and a bone resorption inhibitor.

Size:25 mg
Limited solubility

A2552 Quercetin dihydrate

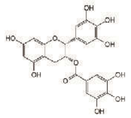
Quercetin is a potent inhibitor of PLA2 and PI 3-kinase with IC50 vaule of 3.8 μM.



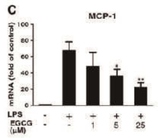
Size:25 mg,100 mg
Soluble in DMSO > 10 mM

A2600 (-)-Epigallocatechin gallate (EGCG)

(-)-Epigallocatechin gallate (EGCG) is a powerful antioxidant as well as an antiangiogenic and antitumor agent.



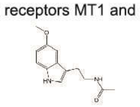
Size:100 mg,500 mg
Soluble in DMSO > 10 mM



Effect of EGCG on lipopolysaccharide-induced MCP-1 expression.

A2842 Melatonin

Melatonin is an endogenous hormone that acts as an agonist at melatonin receptors MT1 and MT2.



Size:100 mg
Soluble in DMSO > 10 mM

A2852 Leflunomide

Leflunomide is an agonist of aryl hydrocarbon receptor (AHR).

Size:100 mg
Soluble in DMSO > 10 mM

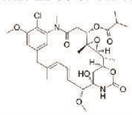
A2890 Nepafenac

Nepafenac is a non-steroidal anti-inflammatory drug (NSAID) with IC50 values of 250 nM and 150 nM for COX-1 and COX-2, respectively.

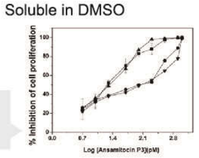
Size:25 mg,100 mg
Soluble in DMSO > 10 mM

A3183 Ansamitocin P-3

Ansamitocin P-3, a natural product, is maytansinoid which showed potent cytotoxicity against the human solid tumor cell lines A-549 and HT-29 with ED50 of 4 x 10-7 μg/ml.



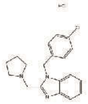
Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO



Effect of Ansamitocin P3 on cell proliferation.

A3316 Clemizole hydrochloride

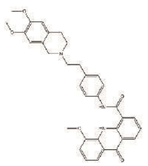
Clemizole hydrochloride is an antagonist of H1 histamine receptor with an IC50 value of 8 mM for NS4B RNA binding.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in Water

A3384 Elacridar

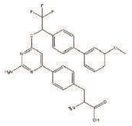
Elacridar is a potent inhibitor of P-glycoprotein with IC50 value of 193 nM.



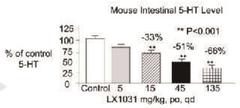
Size:10 mg,50 mg,100 mg
Soluble in DMSO

A3565 LX-1031

LX-1031 is an oral, small molecule inhibitor of tryptophan 5-hydroxylase (TPH).



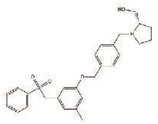
Size:5 mg,25 mg,100 mg,250 mg
Soluble in DMSO



Administration of LX-1031 reduces 5-HT in the GI tract.

A3717 PF-543

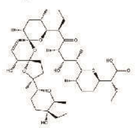
PF-543 is a novel and cell-permeant inhibitor of Sphingosine kinase (SphK1) with IC50 value of 3.6 nM.



Size:5 mg,10 mg,50 mg,200 mg
Soluble in DMSO > 10 mM

A3785 Salinomycin

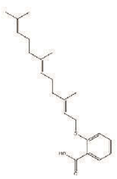
Salinomycin (Sal) is a polyether ionophore antibiotic with IC50 values of 7.7, 13.7 and 10.4 μM for HepG2, SMMC-7721 and BEL-7402 cell lines, respectively.



Size:5 mg,10 mg,50 mg
Limited solubility

A3787 Salirasib

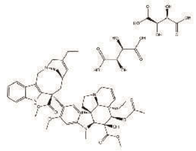
Salirasib (S-trans,trans-farnesylthiosalycilic acid [FTS]) is a synthetic small molecule that acts as a potent Ras inhibitor.



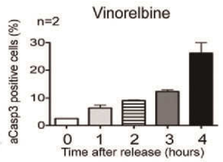
Size:25 mg,100 mg
Soluble in DMSO > 10 mM

A3921 Vinorelbine ditartrate

Vinorelbine is an anti-mitotic chemotherapy drug that is given as a treatment for some types of cancer. Vinorelbine inhibits the proliferation of HeLa cells with IC50 of 1.25 nM.



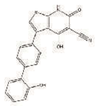
Size:10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM



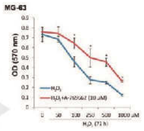
Vinorelbine induces cell death during interphase.

A3963 A-769662

A-769662 is a small-molecule activator of AMPK with EC50 value of 116 nM.



Size:10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM



A-769662 inhibits H_2O_2-induced osteoblast cell death.

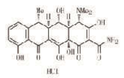
A4014 Artemether (SM-224)

Artemether is a semi-synthetic derivative of artemisinin (qinghaosu) which exhibits potent antimalarial and antischistosomal activities against malarial parasites and Schistosoma japonicum infections.

Size:10 mg,25 mg,50 mg,100 mg
Soluble in DMSO

A4052 Doxycycline hyclate

Doxycycline hyclate is an antibiotic, inhibiting dengue virus replication in vitro with the IC50 values of 52.3 μM at 37°C and 26.7 μM at 40°C.

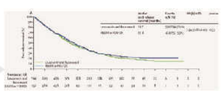


Size:50 mg
Soluble in DMSO > 10 mM

A4071 Fluorouracil (Adrucil)

Fluorouracil (Adrucil), a heterocyclic aromatic organic compound, is a potent anticancer agent widely used for the treatment of solid tumors.

Size:100 mg,200 mg,500 mg
Soluble in DMSO > 10 mM



Post-relapse survival curves.

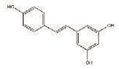
A4176 Thioguanine

Thioguanine is a purine antimetabolite widely used in the treatment of acute lymphoblastic leukemia, autoimmune disorders and organ transplant recipients.

Size:50 mg,500 mg
Limited solubility

A4182 Resveratrol

Resveratrol is a phytoalexin produced naturally by several plants with anti-cancer, anti-inflammatory, blood-sugar-lowering and other beneficial cardiovascular effects.



Size:200 mg,500 mg
Soluble in DMSO > 10 mM

A4216 Thalidomide

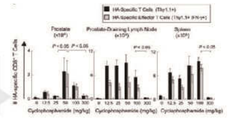
Thalidomide was introduced as a sedative drug, immunomodulatory agent and also is investigated for treating symptoms of many cancers.

Size:200 mg
Soluble in DMSO > 10 mM

A4232 Cyclophosphamide monohydrate

Cyclophosphamide monohydrate is used in the cancer treatment in children, inhibiting the AChE reversibly with an IC50 of 511 μM.

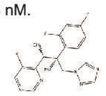
Size:50 mg,5 g,10 g
Soluble in DMSO > 10 mM



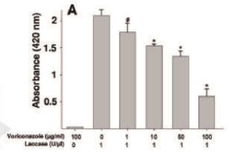
Dosage of immunomodulatory cyclophosphamide.

A4320 Voriconazole

Voriconazole is an inhibitor of 14α-lanosterol demethylase with IC50 value of 53 nM.



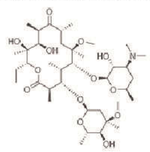
Size:10 mg,25 mg,100 mg,200 mg
Soluble in DMSO > 10 mM



Voriconazole reduces the oxidation of ABTS by laccase.

A4322 Clarithromycin

Clarithromycin is a potent inhibitor of the cytochrome P450 isoenzyme CYP3A.



Size:100 mg,200 mg
Limited solubility

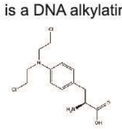
A4472 Mdivi 1

Mdivi 1 is a selective cell-permeable inhibitor of DRP1 and Dnm1.

Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A4473 Melphalan

Melphalan is a DNA alkylating agent and inhibits DNA and RNA synthesis.



Size:50 mg
Soluble in DMSO > 10 mM

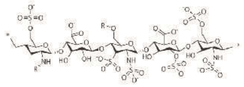
A5059 Edaravone

Edaravone is a novel potent free radical scavenger that has been clinically used to reduce the neuronal damage following ischemic stroke.

Size:5 mg,100 mg
Soluble in DMSO > 10 mM

A5066 Heparin sodium

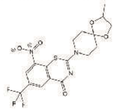
Heparin sodium has numerous important biological activities associated with its interaction with diverse proteins, used as an anticoagulant.



Size:25 mg
Limited solubility

A5118 BTZ043 Racemate

BTZ043 racemate is an inhibitor of DprE1.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

A5161 Imiquimod

Imiquimod activates toll-like receptor 7 (EC50 2.1 μM) on immune cells and also enables an OGF-mediated block of cell proliferation (IC50 2 μM).

Size:100 mg
Limited solubility

A5183 Clopidogrel

Clopidogrel is a selective and high affinity P2Y12 receptor antagonist.

Size:100 mg
Soluble in DMSO > 10 mM

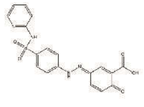
A5293 Risedronate sodium

Risedronate sodium is an orally active biphosphonate that inhibits farnesyl diphosphate (FPP) synthase.

Size:100 mg
Limited solubility

A5770 Sulfasalazine

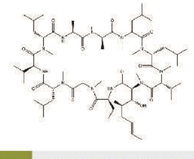
Sulfasalazine is an inhibitor of NF-κB activation.



Size:100 mg
Soluble in DMSO > 10 mM

A5938 Cyclosporine

Cyclosporine (cyclosporin A), an immunosuppressive agent, inhibits phosphatase activity of calcineurin with IC50 value of 5 nM.



Size:100 mg
Soluble in DMSO > 10 mM

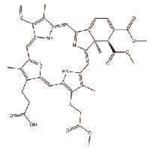
A6707 3-(4-Pyridyl)-D-Alanine.2HCl

3-(4-Pyridyl)-D-Alanine·2HCl.

Size:1 g,5 g,25 g,100 g

A8327 Verteporfin

Verteporfin is a potent second-generation photosensitizing agent derived from porphyrin.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

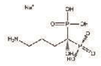
A8355 Acetarsone

Acetarsone is an antiifective agent used as an antiprotozoal.

Size:50 mg,1 g,5 g
Soluble in DMSO

A8359 Alendronate sodium

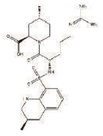
Alendronate sodium is an osteoclast-mediated bone resorption inhibitor.



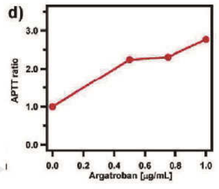
Size:500 mg,1 g
Soluble to 50 mM in sterile water

A8363 Argatroban

Argatroban is a potent inhibitor of thrombin mediated fibrinogen cleavage with Ki value of 19 nM.



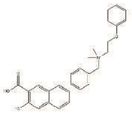
Size:10 mg,50 mg
Soluble in DMSO > 10 mM



Measurement of APTT while titrating argatroban into blood samples.

A8376 Bephenium hydroxynaphthoate

Bephenium hydroxynaphthoate is an anthelmintic agent formerly used in the treatment of hookworm infections and ascariasis.



Size:50mg,1g,5g
Soluble in DMSO

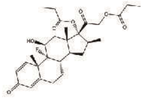
A8377 Beta-carotene

β-Carotene is an organic compound and classified as a terpenoid. It is a precursor (inactive form) of vitamin A.

Size:10 mg,50 mg
Soluble in DMSO and DMF

A8378 Betamethasone Dipropionate

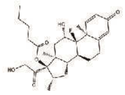
Betamethasone Dipropionate is a glucocorticoid that is used as an antibacterial ointment, and an anti-inflammatory for dermatosis.



Size:50 mg
Soluble in DMSO > 10 mM

A8379 Betamethasone Valerate

Betamethasone valerate (BV or BET) is a commonly used anti-inflammatory corticosteroid with IC50 value of 3.4±0.5 nM in normal rats.



Size:25 mg,50 mg
Soluble in DMSO > 10 mM

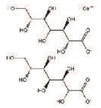
A8382 Bismuth Subsalicylate

Bismuth subsalicylate is used to treat diarrhea and relieve the symptoms of an upset stomachin in adults and teenagers.

Size:50 mg
Limited solubility

A8387 Calcium Gluceptate

Calcium gluceptate is a calcium salt used in the treatment and prophylaxis of hypocalcemia and as an electrolyte replenisher.



Size:1 g,5 g
Soluble in DMSO

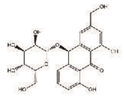
A8388 Carbadox

Carbadox is a drug that combats bacterial infection in swine, particularly swine dysentery.

Size:5 g,50 g
Soluble in DMSO

A8390 Casanthranol

Casanthranol is a mixture of anthranol glycosides, containing cascaroside A and cascaroside B.



Size:50 g,250 g
Soluble in DMSO

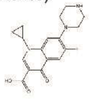
A8397 Chlorothiazide

Chlorothiazide is an inhibitor of carbonic anhydrase and has been shown to block reabsorption of sodium and chloride ions.

Size:50 mg
Soluble in DMSO > 10 mM

A8399 Ciprofloxacin

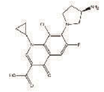
Ciprofloxacin is an antibiotic in a group of drugs called fluoroquinolones (flor-o-KWIN-o-lones).



Size:50 mg
Limited solubility

A8400 Clinafloxacin Cl96 AM1091

Clinafloxacin is a fluoroquinolone that inhibits both Topo II (DNA gyrase) and topoisomerase IV dually in Streptococcus pneumoniae.



Size:50 mg,250 mg
Limited solubility

A8406 Dextrose (D-glucose)

Dextrose is the biologically active form of Glucose (D-Glucose).

Size:10 mg,50 mg
Soluble in DMSO > 10 mM

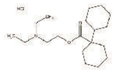
A8408 Dichlorphenamide

Dichlorphenamide is a carbonic anhydrase inhibitor.

Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

A8409 Dicyclomine HCl

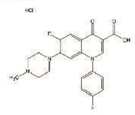
Dicyclomine HCl is used as a gastrointestinal antispasmodic antacid.



Size:1 g,5 g
Soluble in DMSO

A8411 Difloxacin HCl

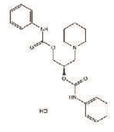
Difloxacin HCl is a quinolone antimicrobial antibiotic, targeting bacterial DNA gyrase.



Size:1 g,5 g
Soluble in DMSO

A8413 Diperodon HCl

Diperodon is a local anesthetic used as hydrochloride salt.



Size:5 g
Soluble in DMSO

A8415 Diphenylpyraline HCl

Diphenylpyraline is a first-generation antihistamine with anticholinergic effects of the diphenylpiperidine class.

Size:1 g,5 g,10 g
Soluble in DMSO

A8416 Docosanol (Abreua)

Docosanol (Abreua) is an antiviral medication used to treat cold sore infections caused by the herpes simplex virus.

Size:50 mg
Limited solubility

A8419 Doxapram HCl

Doxapram HCl is a respiratory stimulant.

Size:50 mg
Soluble in DMSO > 10 mM

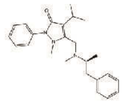
A8427 Ethambutol HCl

Nocodazole is a tubulin production inhibitor, also inhibits Abl, Abl (E255K) and Abl (T315I) with IC50 values of 0.21 μM, 0.53 μM and 0.64 μM, respectively.

Size:50 mg
Soluble in DMSO > 10 mM

A8431 Famprofazone

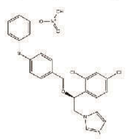
Famprofazone (Gewodin, Gewolen) is a non-steroidal anti-inflammatory agent (NSAID) of the pyrazolone series.



Size:10 mg
Soluble in DMSO

A8432 Fenticonazole Nitrate

Fenticonazole Nitrate is an azole antifungal drug that inhibits CYP51A1 (14 α-demethylase) and ergosterol production.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8442 Guaifensin

Guaifenesin is designed to help thin bronchial secretions so that they are easier to cough up, thus relieving chest congestion.

Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8443 Guanethidine Sulfate

Guanethidine is an antihypertensive drug that reduces the release of catecholamines, such as norepinephrine.

Size:1 g,5 g
Soluble in DMSO

A8459 Laquinimod (ABR-215062)

Laquinimod is an orally-available, quinolinone-based, broad spectrum immunomodulator with anti-inflammatory activity.

Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

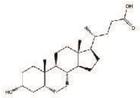
A8462 Lithium Citrate

Lithium Citrate is the active component of Lithium which is a drug used in treatment of psychiatric disease.

Size:100 g,500 g
Soluble in DMSO

A8463 Lithocholic Acid

Lithocholic acid (LCA) is a toxic secondary bile acid, causing intrahepatic cholestasis, which has tumor-promoting activity.



Size:50 mg
Soluble in DMSO > 10 mM

A8467 Mepenzolate Bromide

Mepenzolate is used with other medications to treat peptic ulcers. It works by decreasing the release of acid in the stomach.

Size:50 mg,1 g,5 g
Soluble in DMSO

A8468 Mepiroxol

Mepiroxol is an antihyperlipidemic.

Size:50 mg,1 g,5 g
Soluble in DMSO

A8469 Mesna

Mesna reacts with acrolein and other urotoxic metabolites of oxazaphosphorines (cyclophosphamide or ifosfamide) to form stable, non-urotoxic compounds.

Size:50 mg,100 mg
Soluble in DMSO > 10 mM

A8470 Mestranol

Mestranol is the 3-methyl ether of ethinylestradiol.

Size:100 mg
Soluble in DMSO > 10 mM

A8471 Meticrane

Meticrane is a diuretic and is used to treat essential hypertension.

Size:1 g,5 g,10 g
Soluble in DMSO

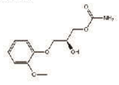
A8472 Methimazole

Methimazole (MMI) is an inhibitor of ICAM-1 gene transcription via modulating the function of STAT1.

Size:10 g,25 g
Soluble in DMSO > 10 mM

A8473 Methyocarbamol

Methocarbamol is a central muscle relaxant used to treat skeletal muscle spasms.



Size:50 mg
Soluble in DMSO > 10 mM

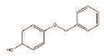
A8475 Mitotane (Lsodren)

Mitotane, or o,p'-DDD, is a derivative of DDT with antiproliferative properties.

Size:100 mg,500 mg
Soluble in DMSO > 10 mM

A8478 Monobenzone

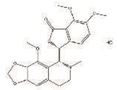
4-(Benzyloxy)phenol, or Monobenzone, is an organic chemical in the phenol family with chemical formula C13H12O2.



Size:5 mg,50 mg
Soluble in DMSO > 10 mM

A8479 Noscapine HCl

Noscapine hydrochloride is the hydrochloride form of Noscapine which is an opioid alkaloid with several actions.



Size:1 g,5 g,10 g
Soluble to 50 mM in 1eq. HCl

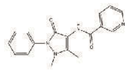
A8482 Nicotine Difartrate

(-)-Nicotine ditartrate is a potent agonist of AChR, stimulating autonomic ganglia and skeletal muscle neuromuscular junctions.

Size:50 mg,1 g
Soluble in DMSO > 10 mM

A8483 Nifenazone

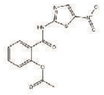
Nifenazone is a drug that has been used as an analgesic for a number of rheumatic conditions.



Size:5 g
Soluble in DMSO

A8485 Nitazoxanide

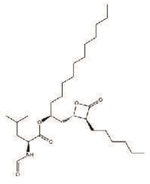
Nitazoxanide is an antiprotozoal (cryptosporidium), and an anthelmintic (cestodes), which is effective against tuberculosis.



Size:10 mg
Soluble in DMSO > 10 mM

A8492 Orlistat

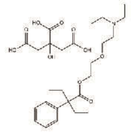
Orlistat (tetrahydrolipstatin) is a drug designed to treat obesity.



Size:25 mg,100 mg
Soluble in DMSO > 10 mM

A8493 Oxeladin Citrate

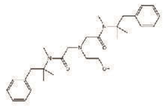
Oxeladin citrate (OL), α, α-diethylbenzeneacetic acid 2-[2-(diethylamino)ethoxy]ethyl ester citrate, is a centrally acting cough suppressant for non-productive cough.



Size:50 mg,1 g,5 g
Soluble in DMSO

A8494 Oxethazaine

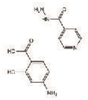
Oxethazaine has been used in combination with antacids for ulcer pain.



Size:1 g,5 g
Soluble in DMSO

A8497 Pasiniazid

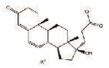
Pasiniazid is an antitubercular agent.



Size:50 mg,1 g
Soluble in DMSO

A8506 Potassium Canrenoate

Potassium canrenoate is a competitive antagonist of aldosterone receptor.



Size:1 g,5 g
Soluble in DMSO

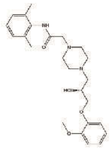
A8507 Pridinol Methanesulfonate

Pridinol Methanesulfonate Salt is used as an anticholinergic and as an antiparkinsonian agent.

Size:50 mg,1 g,5 g
Soluble in DMSO

A8510 Ranolazine

Ranolazine is an anti-ischemic which inhibits late sodium current that results in a reduction of Na^+ dependent Ca^{2+} overload.



Size:10 mg,100 mg,200 mg
Soluble in DMSO > 10 mM

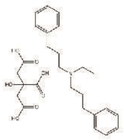
A8523 Sodium 4-amiropparaty hyalrate

Sodium 4-aminosalicylate is an antibiotic used to treat tuberculosis via NF-κB inhibition and free radical scavenging.

Size:50 mg,1g
Soluble in DMSO

B1655 Alverine Citrate

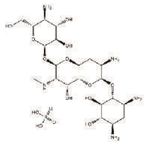
Alverine citrate is a drug used for functional gastrointestinal disorders.



Size:25 mg
Soluble in DMSO > 10 mM

B1665 Apramycin Sulfate

Apramycin is an aminoglycoside antibiotic, which binds to the deep groove of RNA.



Size:50 mg
Limited solubility

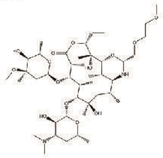
B1667 Azaguanine-8

Azaguanine-8 is a purine analogs showing antineoplastic activity by competing with guanine in the metabolism.

Size:50 mg
Soluble in DMSO > 10 mM

B1731 Dirithromycin

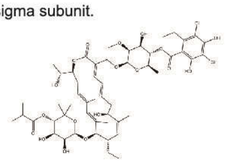
Dirithromycin is a macrolide glycopeptide antibiotic by binding to the 50S subunit of the 70S bacterial ribosome to inhibit the translocation of peptides.



Size:50 mg
Soluble in DMSO > 10 mM

B1755 Fidaxomicin

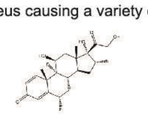
Fidaxomicin is a macrocyclic antibiotic that inhibits RNA polymerase sigma subunit.



Size:50 mg
Soluble in DMSO > 10 mM

B1761 Flumethasone

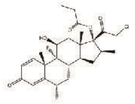
Flumethasone is a glucocorticoid receptor agonist, this complex binds to the nucleus causing a variety of genetic activation and repressions.



Size:50 mg
Soluble in DMSO > 10 mM

B1767 Halobetasol Propionate

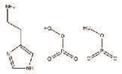
Halobetasol Propionate is an anti-inflammatory and a dermatologic agent commonly used to treat psoriasis.



Size:50 mg
Soluble in DMSO > 10 mM

B1770 Histamine Phosphate

Histamine acts directly on the blood vessels to dilate arteries and capillaries mediated by both H 1- and H 2-receptors.



Size:50 mg
Limited solubility

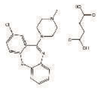
B1773 Idoxuridine

Idoxuridine is a potent and selective cytotoxic cell-permeable anti-herpesvirus agent with IC50 value of 4.3 μM.

Size:50 mg
Soluble in DMSO > 10 mM

B1783 Loxapine Succinate

Loxapine Succinate is a D2DR and D4DR inhibitor, serotonergic receptor antagonist and also a dibenzoxazepine anti-psychotic agent.



Size:50 mg
Soluble in DMSO > 10 mM

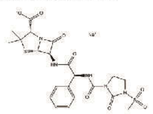
B1784 Levobupivacaine HCl

Levobupivacaine HCl, the pure S(-)-enantiomer of bupivacaine, is a long-acting local anesthetic.

Size:50 mg
Soluble in Water

B1790 Mezlocillin Sodium

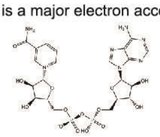
Mezlocillin sodium is a penicillin beta-lactam antibiotic used in the treatment of bacterial infections caused by susceptible, usually gram-positive, organisms.



Size:50 mg
Soluble in DMSO > 10 mM

B1793 NAD+

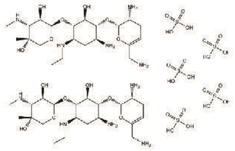
NAD+ is a major electron acceptor molecule in biological oxidations.



Size:50 mg
Limited solubility

B1796 Netilmicin Sulfate

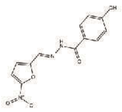
Netilmicin Sulfate is a member of the aminoglycoside family of antibiotics.



Size:5 mg
Limited solubility

B1799 Nifuroxazide

Nifuroxazide is a cell-permeable and orally available nitrofuran-based antidiarrheal agent that effectively suppresses the activation of cellular STAT1/3/5 transcription activity with IC50 value of 3 μM against IL-6-induced STAT3 activation in U3A cells.



Size:50 mg
Soluble in DMSO > 10 mM

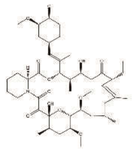
B1809 Penciclovir

Penciclovir is an inhibitor of HSV-1 DNA synthesis.

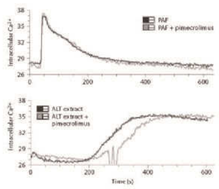
Size:50 mg
Soluble in DMSO > 10 mM

B1817 Pimecrolimus

Pimecrolimus is a cell-selective inhibitor of inflammatory cytokines secretion in T cells and mast cells.



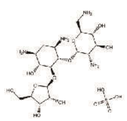
Size:10 mg
Soluble in DMSO > 10 mM



Pimecrolimus affects the intracellular calcium flux induced by PAF.

B1825 Ribostamycin Sulfate

Ribostamycin is an aminoglycoside antibiotic, containing a neutral sugar moiety, and is produced by Streptomyces ribosidificus.



Size:50 mg
Limited solubility

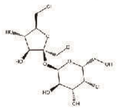
B1826 Risedronate

Risedronic acid (Risedronate) is a pyridinyl biphosphonate which inhibits osteoclast-mediated bone resorption.

Size:100 mg,500 mg,1 g
Limited solubility

B1840 Sucralose

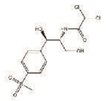
Sucralose is an artificial and noncaloric sweetener and can not be broken down by the body.



Size:50 mg
Soluble in DMSO > 10 mM

B1853 Thiamphenicol

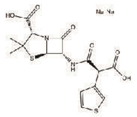
Thiamphenicol is an antibiotic and a glutamate transporter upregulating agent.



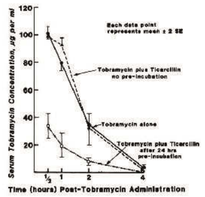
Size:50 mg
Soluble in alcohol

B1854 Ticarcillin sodium

Ticarcillin is a semisynthetic antibiotic with a broad spectrum of bactericidal activity against many gram-positive and gram-negative aerobic and anaerobic bacteria.



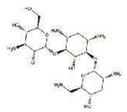
Size:50 mg
Soluble in DMSO > 10 mM



Tobramycin concentrations in serum after subcutaneous injections.

B1856 Tobramycin

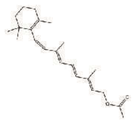
Tobramycin is an aminoglycoside antibiotic with IC50 value of 9.7 μM.



Size:50 mg
Limited solubility

B1868 Vitamin A Acetate

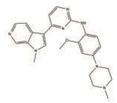
Vitamin A acetate (also known as retinyl acetate) is a fatty acid ester form of vitamin A with antineoplastic and chemopreventive effect.



Size:50 mg
Soluble in alcohol

B1890 AZ191

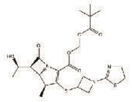
AZ191 is a potent and selective DYRK1B inhibitor with IC50 value of 17 nM.



Size:5 mg,50 mg
Soluble in DMSO > 10 mM

A8529 Tebipenempivoxil

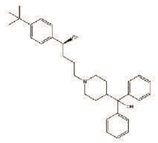
Tebipenem is a broad spectrum orally administered antibiotic, from the carbapenem subgroup of beta-lactam antibiotics.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

A8534 Terfenadine

Terfenadine is a histamine H1-receptor antagonist, which blocks HERG and KATP (KIR6) channels with IC50 values of 204 nM and 1.2 μM, respectively.



Size:100 mg
Soluble in DMSO > 10 mM

A8535 Tetraethylenepentamine 5HCl

Tetraethylenepentamine (TEPA) is used in many applications such as asphalt additives, corrosion inhibitors, epoxy curing agents and so on.

Size:50 mg,1 g,5 g
Soluble in DMSO

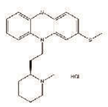
A8536 Thiabendazole

Thiabendazole is a benzimidazole compound that acts as a fungicide and is reported to have aneugenic effects.

Size:50 mg
Soluble in DMSO > 10 mM

A8537 Thioridazine HCl

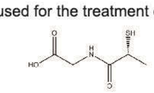
Thioridazine HCl is a calcium channel protein inhibitor as well as D2DR/D4DR inhibitor.



Size:5 mg,1 g
Soluble in DMSO > 10 mM

A8538 Tiopronin (Thiola)

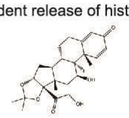
Tiopronin (Thiola) is an inhibitor of cystine precipitation and excretion, which used for the treatment of cystinuria.



Size:50 mg
Soluble in DMSO > 10 mM

A8540 Triamcinolone Acetonide

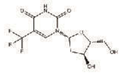
Triamcinolone acetonide is an antiinflammatory steroid that inhibits the IgE-dependent release of histamine.



Size:50 mg,250 mg
Soluble in DMSO > 10 mM

A8542 Triflurdine (Viroptic)

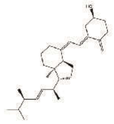
Trifluridine (also called trifluorothymidine or TFT) is an anti-herpesvirus antiviral drug, used primarily on the eye.



Size:50 mg
Soluble in DMSO > 10 mM

A8543 Vitamin D2 (Ergocalciferol)

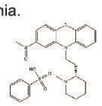
Vitamin D2 is an inhibitor of DNA Polymerase and has a strong inhibitory effect against bladder tumor promotion.



Size:50 mg,1 g,5 g
Soluble in DMSO > 10 mM

A8701 Mesoridazine Besylate

Mesoridazine is a type of phenothiazine for the treatment of schizophrenia.



Size:10 mg,25 mg
Soluble in DMSO

A8702 Mesoridazine

Mesoridazine is a type of phenothiazine for the treatment of schizophrenia.

Size:10 mg,50 mg
Soluble in DMSO

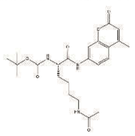
A8712 MCB-613

MCB-613, 4-ethyl-2,6-bis-pyridin-3-ylmethylene-cyclohexanone, is a novel and potent stimulator of p160 steroid receptor coactivators (SRCs).

Size:5 mg,25 mg
Soluble in DMSO

A8713 Boc-Lys(Ac)-AMC

Commendamide (N-acyl-3-hydroxypalmitoyl-glycine) is a newly discovered GPCR G2A/GPR132 agonist (EC50=11.8 μM) that isolated from Bacteroides vulgatus.

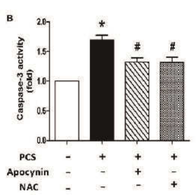


Size:50 mg,250 mg
Soluble in DMSO > 10 mM

A8895 p-Cresyl sulfate

The p-Cresol is a protein-bound uremic retention solute.

Size:10 mg
Soluble in DMSO

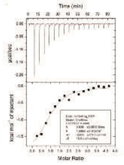


Effects of apocynin and NAC on PCS-induced apoptotic process.

A9503 BQU57

BQU57, a derivative of RBC8, shows selectivity for Ral relative to the GTPases Ras and RhoA and inhibits tumour xenograft growth.

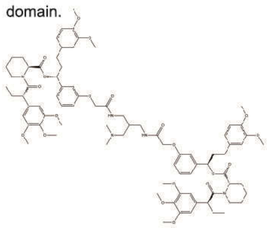
Size:10 mg,50 mg
Soluble in DMSO



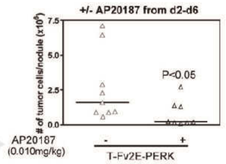
Characterization of BQU57 binding to Ral.

B1274 AP20187

AP20187 is a synthetic and cell-permeable drug that can dimerize and activate fusion proteins containing a growth factor receptor signaling domain.



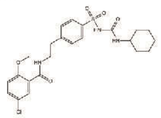
Size:1 mg,5 mg,10 mg,50 mg
Soluble in ethanol



Activation of Fv2E-PERK by AP20187 inhibits tumor growth in vivo.

B1296 Glibenclamide

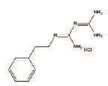
Glibenclamide is a sulfonylurea compound that modulates insulin production.



Size:500 mg,1 g
Soluble in DMSO

B1373 Phenformin HCl

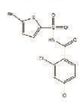
Phenformin HCl is a hydrochloride salt of the biguanidine drug phenformin.



Size:10 g,50 g
Soluble in DMSO > 10 mM

B1422 Tasisulam

Tasisulam is an antitumor agent that induces growth arrest and apoptosis of human solid tumours.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

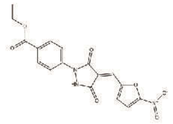
B1467 TCID

TCID is a potent, selective and cell-permeable inhibitor of UCHL3 (ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase)) with IC50 value of 0.6 μm.

Size:10 mg,200 mg
Soluble in DMSO > 10 mM

B1492 PYR-41

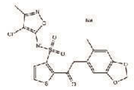
PYR-41 is the first cell-permeable inhibitor of ubiquitin-activating enzyme E1 (IC50 < 10 μM).



Size:10 mg,25 mg
Soluble in DMSO > 10 mM

B1522 Sitaxentan sodium

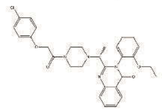
Sitaxsentan sodium (TBC11251 sodium salt) is an orally active, highly selective antagonist of endothelin A receptors.



Size:10 mg,50 mg,100 mg
Soluble in DMSO > 10 mM

B1524 Erastin

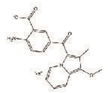
Erastin is a cell-permeable ferroptosis activatior and an antitumor agent that is selective for cell expressing oncogene RAS.



Size:5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

B1525 SSR128129E

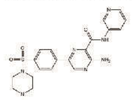
SSR128129E is an allosteric inhibitor of FGFR1 with IC50 value of 1.9 μM.



Size:5 mg,20 mg
Soluble in DMSO > 10 mM

B1537 AZD2858

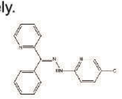
AZD2858 is a selective GSK-3 inhibitor with IC50 value of 68 nM.



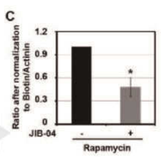
Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B1579 JIB-04

JIB-04 is a pan-selective inihibitor of Jumonji histone demethylase with IC50 values of 230, 340, 855, 445, 435, 1100, and 290 nM for JARID1A, JMJD2E, JMJD3, JMJD2A, JMJD2B, JMJD2C, and JMJD2D, respectively.



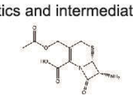
Size:20 mg,50 mg
Soluble in DMSO > 10 mM



JIB-04 inhibits translation initiation.

B1652 7-Aminocephalosporanic acid

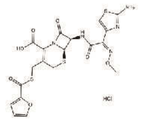
7-Aminocephalosporanic acid is used for synthesis of cephalosporin antibiotics and intermediates.



Size:50 mg
Limited solubility

B1907 Ceftiofur HCl

Ceftiofur HCl is a cephalosporin antibiotic, which is used to treat both gram-positive and gram-negative bacteria infection.



Size:50 mg
Soluble in DMSO > 10 mM

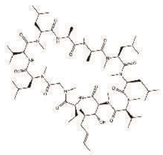
B1909 Chlormezanone

Chlormezanone, a non-benzodiazepine, is used in the management of anxiety and the treatment of muscle spasm.

Size:50 mg
Soluble in DMSO > 10 mM

B1922 Cyclosporin A

Cyclosporin A is a selective cyclophilin inhibitor with IC50 value of 7 nM.



Size:100 mg,200 mg,500 mg
Soluble in DMSO > 10 mM

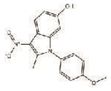
B1946 Foscarnet Sodium

Foscarnet sodium inhibits viral RNA polymerases, reverse transcriptase, and DNA polymerases through noncompetitive inhibition with dNTPs.

Size:1 g
Soluble in DMSO > 10 mM

B1952 ID-8

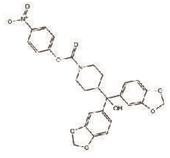
ID-8 is a small molecule inhibitor of DYRK.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B1958 JZL184

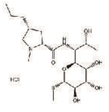
JZL184 is a potent and selective inhibitor of MAGL.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B1962 Lincomycin HCl

Lincomycin HCl (U10149A) is an antibiotic produced by Streptomyces lincolnensis var. lincolnensis.



Size:50 mg
Soluble in DMSO > 10 mM

B1966 Menadione

Menadione acts as vitamin K produg,which inhibits protein tyrosine phosphatases and induces DNA strand breaks.

Size:50 mg
Soluble in DMSO > 10 mM

B1967 Mepivacaine HCl

Mepivacaine is a tertiary amine used as a local anesthetic.

Size:50 mg
Limited solubility

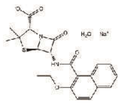
B1970 Metformin HCl

Metformin HCl is one of the most effective and widely used therapeutics for treatment of type 2 diabetes.

Size:10 g,50 g
Limited solubility

B1983 Nafcillin Sodium

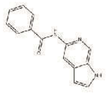
Nafcillin sodium reversibly inhibits β-lactamase with Kd of 33 mM.



Size:50 mg
Soluble in DMSO > 10 mM

B1994 OAC1

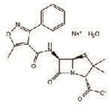
OAC1 is an activator of Oct4.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B1997 Oxacillin Sodium Monohydrate

Oxacillin sodium monohydrate is a narrow spectrum β-lactam antibiotic with IC50 value of 5 μM.



Size:50 mg,200 mg
Limited solubility

B2002 D-Pantothenic acid

D-Pantothenic acid (vitamin B5) is a water-soluble vitamin and is an essential nutrient to synthesize coenzyme-A, fats, proteins and carbohydrates.

Size:50 mg
Soluble in DMSO > 10 mM

B2020 Ribitol

Ribitol is a crystalline pentose alcohol and is formed by the reduction of ribose which occurs naturally in the plant Adonis vernalis.

Size:250 mg
Soluble in DMSO > 10 mM

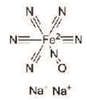
B2023 Ropivacaine HCl

Ropivacaine HCl is an anaesthetic agent and blocks impulse conduction in nerve fibres through inhibiting sodium ion influx reversibly.

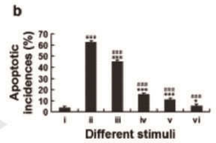
Size:50 mg
Soluble in DMSO

B2026 Sodium Nitroprusside

Sodium Nitroprusside is a potent nitric oxide (NO) donor.



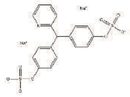
Size:50 mg
Soluble in DMSO > 10 mM



Inhibition of sodium nitroprusside-induced apoptosis by NS3694.

B2027 Sodium Picosulfate

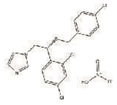
Sodium Picosulfate is a laxative that inhibits water and electrolytes absorption and increases their secretion.



Size:50 mg
Soluble in DMSO > 10 mM

B2036 Sulconazole Nitrate

Sulconazole Nitrate is an imidazole derivative with broad-spectrum antifungal activity.



Size:50 mg
Soluble in DMSO > 10 mM

B2046 Tempol

Tempol is a superoxide scavenger that can permeate the membrane.

Size:5 g,20 g
Soluble in DMSO > 10 mM

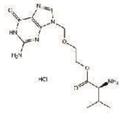
B2048 Thiamet G

Thiamet G is a potent and selective inhibitor of O-GlcNAcase with Ki value of 21 nM.

Size:5 mg,25 mg
Soluble in DMSO > 10 mM

B2061 Valaciclovir HCl

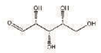
Valaciclovir HCl is an aciclovir prodrug, which inhibits activity of virus DNA polymerase.



Size:50 mg
Soluble in DMSO > 10 mM

B2067 Xylose

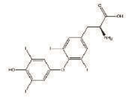
Xylose is a monosaccharide.



Size:50 mg
Soluble in DMSO > 10 mM

B2107 L-Thyroxine

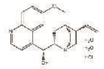
L-Thyroxine is an iodine containing hormone produced from thyroglobulin in the thyroid follicular cells.



Size:500 mg,1 g
Soluble in DMSO > 10 mM

B2123 Quinine HCl Dihydrate

Quinine HCl Dihydrate is a white crystalline K^+ channel blocker for treatment of malaria.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

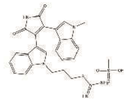
B2131 Sulbactam

Sulbactam is a competitive, irreversible β-lactamase inhibitor with IC50 value of 0.02 to 1.9 μM.

Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B2192 Ro 31-8220 Mesylate

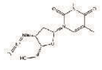
Ro 31-8220 Mesylate is a selective inhibitor of protein kinase C (PKC) with IC50 values of 5, 24, 14, 27, and 24 nM for PKC α, PKC βI, PKC βII, PKC γ and PKC ε, respectively.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

B2221 Zidovudine

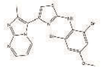
Zidovudine is an inhibitor of the reverse transcriptase of HIV-1.



Size:25 g,50 g
Soluble in DMSO > 10 mM

B3179 PTC-209

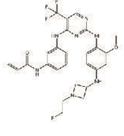
PTC-209 is a small-molecule inhibitor of BMI-1 with IC50 value of 0.5 μM.



Size:2 mg,5 mg,10 mg,50 mg
Soluble in DMSO > 10 mM

B3227 CNX-2006

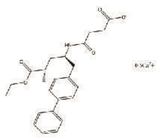
CNX-2006, a structural analog of CO-1686, is a selective and irreversible inhibitor of mutant-EGFR with IC50 value of < 20 nM.



Size:5 mg,25 mg
Soluble in DMSO > 10 mM

B3267 AHU-377 hemicalcium salt

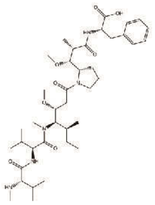
AHU-377 hemicalcium salt is an inhibitor of neprilysin with IC50 value of 5 nM.



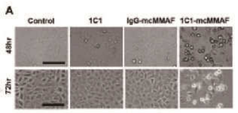
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

B3270 MMAF

MMAF is a highly potent antimitotic agent.



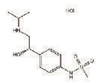
Size:5 mg,10 mg,25 mg
Soluble in DMSO



Cytotoxicity of immunoconjugate treatment.

B3341 Sotalol hydrochloride

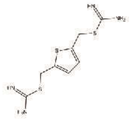
Sotalol hydrochloride is a potent and non-selective antagonist of β-adrenergic receptor.



Size:50 mg,100 mg,200 mg
Soluble in DMSO > 10 mM

B3384 TPT-260

TPT-260 (TPU260) is a thiophene thiourea derivative with molecule weight 260.00 in free base form.



Size:5 mg,10 mg,50 mg
Soluble in DMSO

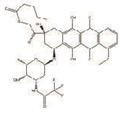
B3399 Tirapazamine

Tirapazamine (SR259075; Win59075; SR4233) is an experimental anticancer drug that is activated to a toxic radical only at very low levels of oxygen (tumor hypoxia).

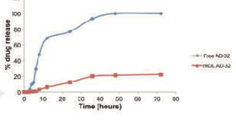
Size:50 mg,200 mg
Soluble in DMSO

B3447 Valrubicin

Valrubicin is a potent topoisomerase inhibitor.



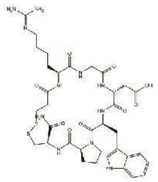
Size:10 mg
Soluble in DMSO



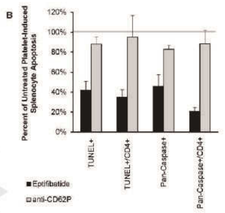
AD-32 (valrubicin) encapsulated in rHDL nanoparticles vs free drug.

B3490 Eptifibatide

Eptifibatide is an antiplatelet drug of the glycoprotein IIb/IIIa inhibitor class.



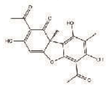
Size:10 mg
Soluble to 5 mg/ml in sterile water



Eptifibatide reduces septic platelet-induced splenocyte apoptosis.

B3661 (+)-Usniacin

(+)-Usniacin is a secondary lichen metabolite that possesses antimicrobial activity against various planktonic gram-positive bacteria.



Size:10 mg,50 mg
Soluble in DMSO

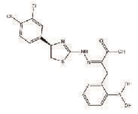
B3675 Apocynin

Apocynin is a selective NADPH-oxidase inhibitor with IC50 of 10 μM.

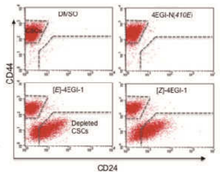
Size:1 g
Soluble in DMSO > 10 mM

B3696 4EGI-1

4EGI-1 is a competitive inhibitor of eIF4E/eIF4G interaction by binding to eIF4E with KD of 25 μM.



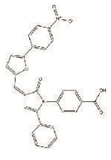
Size:10 mg,25 mg
Soluble in DMSO > 10 mM



4EGI-1 promotes breast CSC differentiation.

B3697 4E1RCat

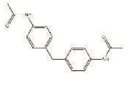
4E1RCat is a dual inhibitor of eIF4E:4E-BP1 and eIF4E:eIF4G interaction, and inhibits the binding of eIF4G to eIF4E with IC50 of 3.2 μM.



Size:5 mg,10 mg
Soluble in DMSO > 10 mM

B3700 FH1(BRD-K4477)

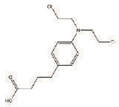
FH1 is a small molecule that can enhance the functions of cultured hepatocytes.



Size:10 mg,25 mg
Soluble in DMSO > 10 mM

B3716 Chlorambucil

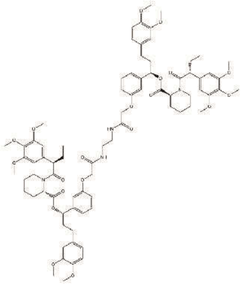
Chlorambucil is a nitrogen mustard alkylating agent, used in the treatment of chronic lymphocytic leukemia.



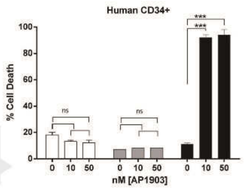
Size:50 mg,1 g,10 g
Soluble in DMSO > 10 mM

B4168 AP1903

AP1903 is a selective inhibitor of FKBP with IC50 value of 5 nM for F36V-FKBP in competition fluorescence polarization assay.



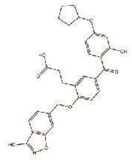
Size:5 mg,10 mg,50 mg,100 mg
Soluble in ethanol



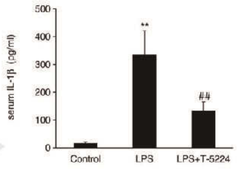
Effect of AP1903 on cells transduced with the iCasp suicide vector.

B4664 T-5224

T-5224 is a non-peptidic, small molecule and novel inhibitor of c-Fos/AP-1.



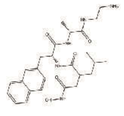
Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO



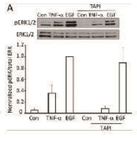
Effect of T-5224 on serum cytokine following LPS administration.

B4686 TAPI-1

TAPI-1 is an inhibitor of tumour necrosis factor with IC50 value of 8.09 μM.



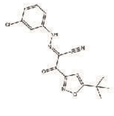
Size:1 mg,5 mg
Soluble in DMSO > 10 mM



The TACE inhibitor TAPI-1 prevents TNF-α-induced ERK activation.

B4814 ESI-09

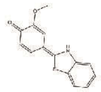
ESI-09 is a specific inhibitor of EPAC with IC50 values of 1.4 and 3.2 μM for EPAC2 and EPAC1, respectively.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

B4857 YL-109

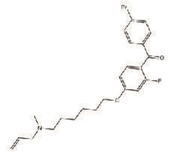
YL-109, 2-(4-Hydroxy-3-methoxyphenyl)-benzothiazole, is a novel antitumor agent.



Size:5 mg,10 mg
Soluble in DMSO

B4859 Ro 48-8071

Ro 48-8071 (4'-[6-(Allylmethylamino)hexyloxy]-4-bromo-2'-fluorobenzophenone fumarate) is a small-molecule inhibitor of oxidosqualene cyclase.



Size:10 mg,50 mg,100 mg
Soluble in DMSO

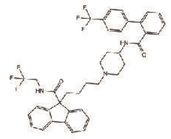
B4883 Abscisic Acid (Dormin)

Abscisic acid (ABA) is a plant hormone and plays an important role in regulating plant growth and development.

Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

B4885 Lomitapide

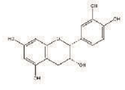
Lomitapide (AEGR-733, BMS-201038) is an oral inhibitor of microsomal triglyceride transfer protein.



Size:5 mg,25 mg,100 mg
Soluble in DMSO > 10 mM

B4964 (-)-epicatechin

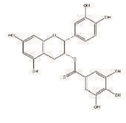
(-)-epicatechin is a flavonoid that increases NO levels and an inducer of pancreatic β-cell regeneration.



Size:5 mg,10 mg,20 mg
Soluble in DMSO

B4965 (-)-epicatechin gallate

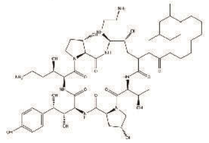
(-)-epicatechin gallate, a major catechin component in green tea, plays an important role in cell growth inhibition, apoptosis and membrane transport system.



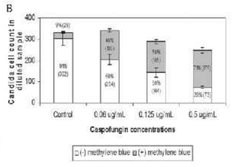
Size:5 mg,10 mg,20 mg
Soluble in DMSO

B4972 Caspofungin

Caspofungin is a lipopeptide antifungal drug.



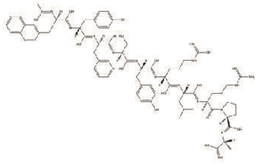
Size:5 mg,10 mg,50 mg
Soluble in DMSO



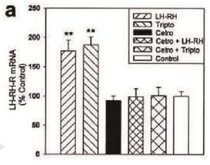
Effects of caspofungin on C. albicans SC5314 viability.

B4975 Cetrorelix

Cetrorelix is a gonadotropin-releasing hormone (GnRH) antagonist.



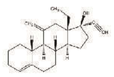
Size:5 mg,25 mg
Soluble in DMSO



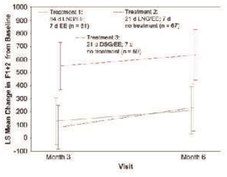
Effects of cetrorelix on LHRH-R expression and LH secretion.

B4976 Desogestrel

Desogestrel is a progestin, used in hormonal contraceptives.



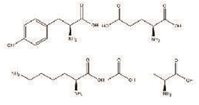
Size:5 mg,25 mg
Soluble in DMSO



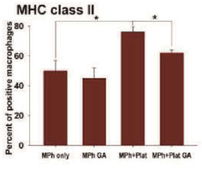
Change from baseline in F1 + 2* at three and six months.

B4978 Glatiramer Acetate

Glatiramer acetate is a potent immunomodulator.



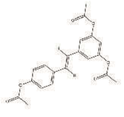
Size:5 mg,25 mg
Soluble in DMSO



The role of GA in platelet-dependent activation of macrophages.

B5971 Triacetyl Resveratrol

Triacetyl Resveratrol is a cell-permeable and stable resveratrol prodrug.



Size:10 mg,25 mg
Soluble in DMSO

B6001 4-Methylumbelliferone (4-MU)

4-Methylumbelliferone(4-MU) is an inhibitor of hyaluronic acid (HA) synthesis with an IC50 value of 0.4 mM.

Size:100 mg,500 mg
Soluble in DMSO > 10 mM

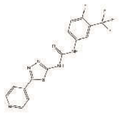
B7590 Quinidine

Quinidine is a pharmaceutical agent that acts as a class I antiarrhythmic agent (Ia) in the heart.

Size:50 mg,250 mg
Soluble in DMSO > 10 mM

B8015 ML216

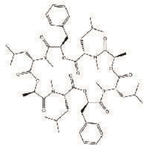
ML216 is a potent inhibitor of the DNA unwinding activity of BLM helicase with IC50 of 3.0 and 0.97 μM for full length BLM and BLM636–1298, respectively.



Size:5 mg,10 mg
Soluble in DMSO

B8018 PF 1022A

PF1022A is a novel anthelmintic cyclodepsipeptide, exhibiting strong anthelmintic activities against Ascaridia galli in chickens.



Size:5 mg,10 mg,50 mg,100 mg
Soluble in DMSO

B8200 SB 225002

SB 225002 is a potent and selective CXCR2 chemokine receptor antagonist with IC50 value of 22 nM.

Size:5 mg,10 mg,25 mg,50 mg
Soluble in DMSO > 10 mM

A1006 Angiotensin I (human, mouse, rat)

Angiotensin I appears to have no biological activity and exists solely as a precursor to angiotensin II.

Size:5 mg,10 mg,25 mg
Soluble to 1 mg/ml in sterile water

A1007 Angiotensin 1/2 (1-9)

Angiotensin I/II (1-9) is a peptide (ASP-ARG-VAL-TYR-ILE-HIS-PRO-PHE-HIS) containing the amino acids 1-9 that are converted from Angiotensin I/II peptide.

Size:5 mg,10 mg,25 mg

A1009 ANP (1-11), rat

Atrial Natriuretic Peptide (ANP) is a 28 amino acid peptide that is synthesized, stored, and released by atrial myocytes in response to atrial distension, angiotensin II stimulation, endothelin, and sympathetic stimulation.

Size:1 mg,5 mg,10 mg,25 mg

A1026 β-Interleukin I (163-171), human

β-Interleukin I (163-171), human (C39H64N12O19), is a peptide with sequence of Val-Gln-Gly-Glu-Glu-Ser-Asn-Asp-Lys, MW= 1005.

Size:5 mg,10 mg,25 mg

A1027 β-Interleukin II (44-56)

β-Interleukin II (44-56), (C68H113N19O19), is a peptide with the sequence of NH2-ILE-LEU-ASN-GLY-ILE-ASN-ASN-TYR-LYS-ASN-PRO-LYS-LEU-COOH, MW= 1500.7.

Size:5 mg,10 mg,25 mg

A1030 Interleukin II (60-70)

Interleukin 2 (IL-2) is a type of cytokine signaling molecule in the immune system, and it regulates the activities of the white blood cells (leukocytes, often lymphocytes).

Size:1 mg,5 mg,10 mg,25 mg

A1049 Angiotensin 1/2 (5-7)

Angiotensin 1/2 (5-7), a peptide with sequence of H2N-Ile-His-Pro-OH, causes vasoconstriction and a subsequent increase in blood pressure.

Size:5 mg,10 mg,25 mg

A1139 GTP binding protein 1 fragment [Multiple species]

GTP binding protein 1 fragment [Multiple species] is used as signal transducing molecule.

Size:1 mg,5 mg,10 mg,25 mg

A1198 Levetiracetam

Levetiracetam (LEV) is a newly developed antiepileptic drug (AED) with a broad spectrum of efficacy against partial and generalized seizures.

Size:5 mg,100 mg
Soluble in DMSO > 10 mM

Progesterone

A8509 Progesterone

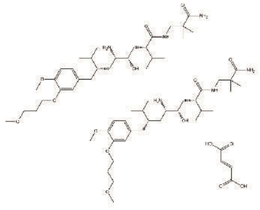
Progesterone is a critical hormone for the maintenance of pregnancy, menstrual cycle, endometrium and functions with its receptor.

Size:10 mg,25 mg
Soluble in DMSO > 10 mM

Renin Inhibitor

B2215 Aliskiren Hemifumarate

Aliskiren (CGP 60536) is the first drug called direct renin inhibitors.

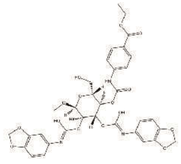


Size:100 mg,1 g
Soluble in DMSO > 10 mM

Transcription Factor

B7782 BRD 7552

BRD7552 is an inducer of transcription factor PDX1, increasing insulin expression.



Size:10 mg,50 mg
Soluble in DMSO > 10 mM

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