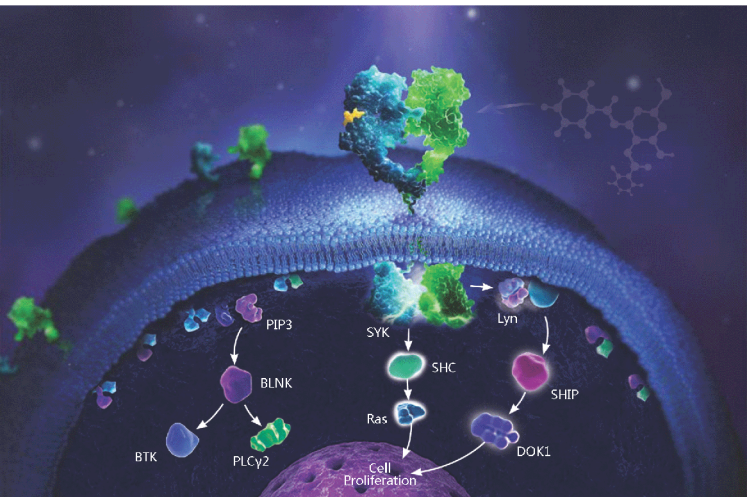


Product Catalog

2016-2017



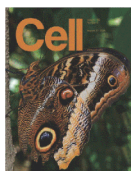
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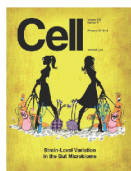
Publications Citing ApexBio Products



2015;524(7565):309-14



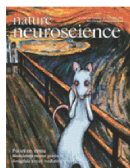
2015;162(5):987-1002



2015,160(4):729-744



2015 May;17(5):627-38



2015;18(10):1464-73



2015 Jun 24;6:7515



2015;211(1):159-72



2015;210(3):435-50



2015;112(26):E3365-73



2015;112(30):9412-7



2014,111(26):9503-8



2015 May 19;4



2014 Dec 30;3e:04265



2015 Sep;16(9):1114-30



2015;12(12):1986-96



2016 Jan; 23(1):76-88

Publications Citing ApexBio Products



2015,11(12):e1005324



2015,17(4):403-413



2014,5(11):3728-42



2015,6(2):1171-89



2015,35(38):13244-56



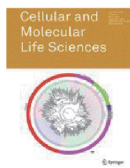
2014,7(357):ra122



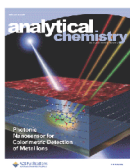
2015,23(9):1475-85



2015,106(1):153-62



2015,72(22):4399-407



2015,87(10):5046-9



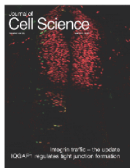
2015,359(2):250-258



2015 Mar 9;5:8895



2015 Jul 13;5:11529



2015,128(5):1034-50



2015,36(3):1462-1470



2016;196(1):407-15

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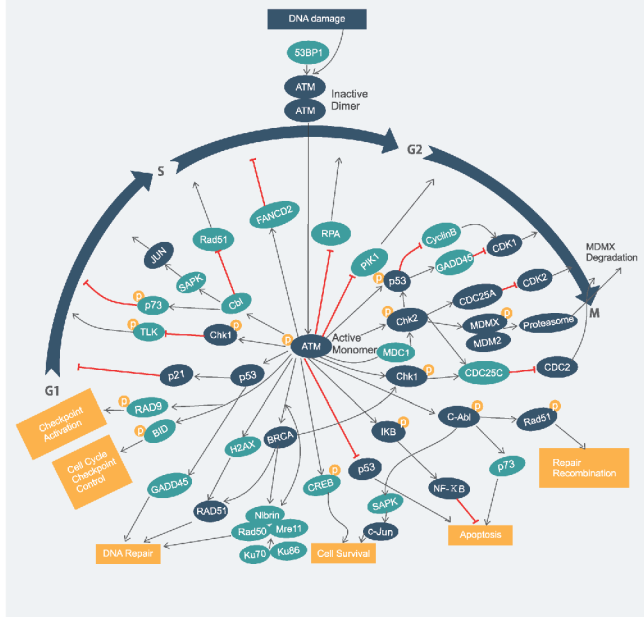
/ Abbreviations /

A β : Amyloid beta	DNMT: DNA methyltransferase
Abl: Ablason tyrosine kinase	DPP4: Dipeptidyl peptidase-4
AhR: Aryl hydrocarbon receptor	DUB: Deubiquitylase
Akt: Also known as protein kinase B (PKB)	EEF-2: Eukaryotic elongation factor 2
ALK: Anaplastic lymphoma kinase	EGFR: Epidermal growth factor receptor
AMPK: AMP-activated protein kinase	EGF: Epidermal growth factor
AP-1: Transcription factor	EIF4E: Translation initiation factor 4E
ATM: Ataxia telangiectasia-mutated	ERK: Extracellular signal-regulated kinases
ATR: Ataxia telangiectasia and Rad3-related	EZH2: Enhancer of zeste homolog 2
AXL: Receptor tyrosine kinase	E1: Ubiquitin-activating enzyme
BAFFs: B cell activating factor belonging to the TNF family	FAK: Focal adhesion kinase
Bax: Bcl-2 associated X protein	FAS: Fatty acid synthase
Bcl-2: B cell lymphoma 2	FasL: FAS ligand
Bcl-xL: B cell lymphoma-extra large	FGF: Fibroblast growth factors
BMI1: Also called polycomb group RING finger protein 4 (PCGF4)	FGFR: Fibroblast growth factor receptor
BTK: Bruton's tyrosine kinase	FLT3: FMS-like tyrosine kinase 3 receptor
c-Abl: Abelson murine leukemia viral oncogene	FXR: Farnesoid X receptor
CaMK: Ca ²⁺ /calmodulin-dependent protein kinase	GPCR: G protein-coupled receptors
CDC42: Control protein 42 homolog	GSK3: Glycogen synthase kinase 3
CDK: Cyclin-dependent kinase	HDAC: Histone deacetylases
CETP: Cholesteryl ester transfer protein	HIF-1 α : Hypoxia-inducible factor-1 α
CFTR: Cystic fibrosis transmembrane conductance regulator	HSP: Heat shock protein
Chk: Csk homologous kinase	IFN: Interferon
CK1: Keratin 1	IGFs: Insulin-like growth factors
ciAP: Cellular inhibitor of apoptosis	IKK: I κ B Kinase
cPLA2: Cytosolic phospholipases A2	IKK β : I κ B kinase- β
c-Met: Also called HGFR (hepatocyte growth factor receptor)	IL-1 β : Interleukin-1 beta
c-Myc: Oncogenic transcription factor	Insulin/IGF: Insulin-like growth factor
COT: Center-of-Tree	JAK: Janus kinase
COX: Cyclooxygenase	JNK: C-Jun N-terminal kinases
CREB: cAMP-response element binding protein	LTB4: Leukotriene B4
Cyto C: Cytochrome c	MDM2: Mouse double minute 2
DHFR: Dihydrofolate reductase	MDMX: Also called Mdm4
DNA-PK: DNA-dependent protein kinase	Mcl-1: Myeloid cell leukemia 1
	MyD88: Myeloid differentiation primary response gene 88
	MEK1/2: Mitogen-activated protein kinase kinase 1/2

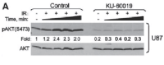
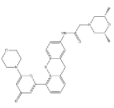
/ Abbreviations /

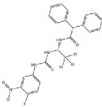
mTOR: Mammalian target of rapamycin	SCF: Stem cell factor
MTH1: MutT homologue 1	SFRP: Secreted frizzled-related protein
MMP: Massively multi-player	SHP: Small heterodimer partner
NF- κ B: Nuclear factor kappa B	SIRT: Sirtuins
NFAT: Nuclear factor of activated T-cells	Src: Belong to tyrosine protein kinases.
NMDA: N-Methyl-D-aspartic acid	STAT: Signal transducer and activator of transcription
PAK: P21-activated kinase	SUV39H1: Histone methyl transferase
PARP: Poly ADP ribose polymerase	Syk: Spleen tyrosine kinase
PDE: Phosphodiesterase	TGF: Transforming Growth Factor
PDGFR: Platelet-derived growth factor receptor	TLR4: Toll-like receptor 4
PDGFs: Platelet-derived growth factors	TNF: Tumor necrosis factor
PDK1: Phosphoinositide-dependent kinase-1	TrkA/B: Tropomyosin receptor kinase A/B
P-gp: P-glycoprotein	VEGFR: Vascular endothelial growth factor receptor
PIM: Serine/threonine kinase	VEGFs: Vascular endothelial growth factors
PI3K: Phosphoinositide 3-Kinase	WIP1: Wild-type p53-induced phosphatase
PKA: Protein kinase A	1 phosphatase 1
PKC: Protein kinase C	Wnt: Wingless-type MMTV integration site family
PKD: Protein kinase D	XIAP: X-linked inhibitor-of-apoptosis protein
PLK1: Polo-like kinase 1	
PLC: Phospholipase C	
p53: Tumor protein p53	
p38: Protein kinase p38	
p300: A transcriptional coactivator	
P110: An enzyme that regulates immune function	
PPAR: Peroxisome proliferator-activated receptor	
PP2A: Protein phosphatase 2A	
PP2: Protein phosphatase 2	
PP1: Protein phosphatase 1	
PTEN: Phosphatase and tensin homolog	
PTP: Protein tyrosine phosphatase	
PYK: Pyruvate kinase	
Rac: Belong to Rho-family small GTPase	
Raf: rapidly accelerated fibrosarcoma	
RAS: Renin-angiotensin system	
RSK: Ribosomal protein S6 kinase	
RTK: Receptor tyrosine kinase	
ROCK: Rho-associated kinase	
RXR: Retinoid X receptor	

ATM Signaling Pathway

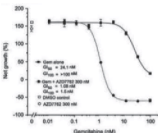
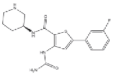


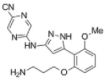
ATM Inhibitors

KU-60019	A8336
<p>KU-60019 is an improved analogue of KU-55933 with IC50 of 6.3 nM for ATM, 270- and 1600-fold more selective for ATM than DNA-PK and ATR.</p>  <p>A</p> <p>Time, min: 0, 15</p> <p>Control: -, -, -, -, -, -</p> <p>KU-60019: -, -, -, -, -, -</p> <p>Conc. (μM): 0, 1.2, 2.4, 23, 230, 0.2, 0.3, 0.4, 9.2, 9.3</p> <p>Protein: pAkt(S473), AKT</p> <p>Treatment of KU-60019 inhibits Akt phosphorylation</p>	 <p>Size: 10 mg, 50 mg, 200 mg. Soluble in DMSO > 10 mM.</p>

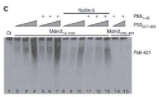
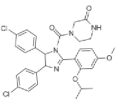
CGK733	A8624
<p>CGK733 is a potent and selective inhibitor of ATM/ATR with IC50 of ~200 nM.</p> <p>Size: 10 mg, 50 mg, 200 mg. Soluble in DMSO > 10 mM.</p>	

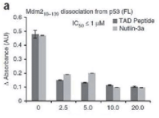
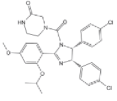
Chk1 Inhibitors

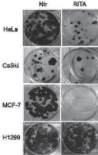
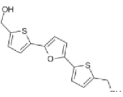
AZD7762	A5919
<p>AZD7762 is a potent and selective inhibitor of Chk1 with IC50 of 5 nM.</p>  <p>Cell growth (%)</p> <p>Genotoxicity (μM)</p> <p>Legend: <ul style="list-style-type: none"> ● SW620 (500 nM) ○ SW626 (500 nM) ▲ SW637 (500 nM) ■ AZD7762 (500 nM) </p> <p>AZD7762 enhances the activity of DNA damaging agents.</p>	 <p>Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

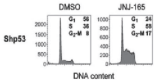
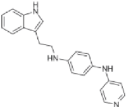
LY2606368	B1088
<p>LY2606368 is a selective ATP competitive inhibitor of Chk1 with IC50 of 1.5 nM in SW1990 cells.</p> <p>Size: 5 mg, 25 mg. Soluble in DMSO.</p>	

MDM2 Inhibitors and Antagonist


Nutlin-3	A4228
<p>Nutlin-3 is a potent and selective antagonist of MDM2 with IC50 of 90 nM.</p>  <p>C</p> <p>Conc. (nM): 0, 0.5, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024</p> <p>Protein: p53, p53 siRNA</p> <p>Binding of the C-terminal domain of p53 and the N-terminal domain of MDM2 is interrupted by the treatment of MDM2 by Nutlin-3.</p>	 <p>Size: 5 mg, 10 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

Nutlin-3a chiral	A3671
<p>Nutlin-3a chiral is a small-molecule inhibitor of MDM2 with IC50 of 0.09 μM.</p>  <p>a</p> <p>MDM2 p53-135 dissociation from p53 (FL)</p> <p>IC50 < 1 μM</p> <p>Legend: <ul style="list-style-type: none"> ■ TAD Peptide □ Nutlin-3a </p> <p>Nutlin-3a disrupts p53's interaction with the N-terminal of MDM2.</p>	 <p>Size: 10 mg, 50 mg, 200 mg. Soluble in DMSO > 10 mM.</p>

RITA (NSC 652287)	A4202
<p>RITA (NSC 652287) is an inhibitor of MDM2-p53 interaction by targeting p53.</p>  <p>HeLa, CaSi, MCF-7, H1299</p> <p>Legend: <ul style="list-style-type: none"> HeLa: No, RITA CaSi: No, RITA MCF-7: No, RITA H1299: No, RITA </p> <p>RITA suppresses cancer cell growth.</p>	 <p>Size: 5 mg, 10 mg, 25 mg, 50 mg. Soluble in DMSO > 10 mM.</p>

JNJ-26854165 (Serdemetan)	A4204
<p>JNJ-26854165 (Serdemetan) is an inhibitor of MDM2 and also inducer of early apoptosis in p53 wild-type cells.</p>  <p>Treatment of JNJ-26854165 induced G2-M arrest.</p>	 <p>Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

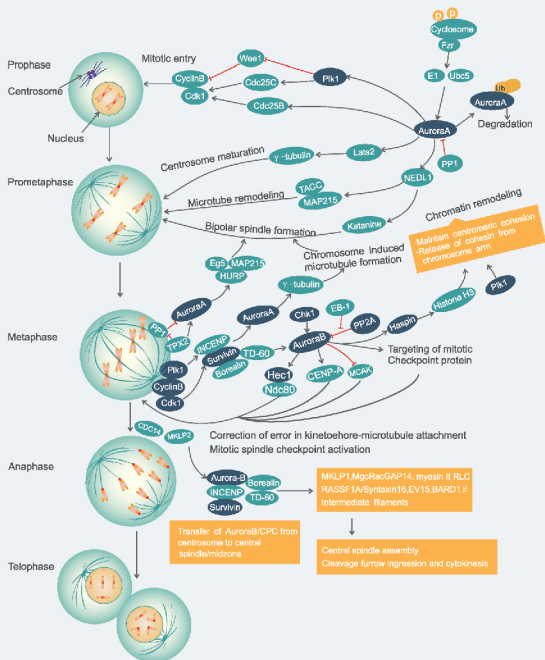
MDMX Inhibitor

NSC 207895 (XI-006)	A4209
<p>NSC 207895 is a MDMX inhibitor and anticancer agent.</p> <p>Size: 5 mg, 25 mg. Limited solubility.</p>	

• CDK.....	18
• Proteasome	65
• c-Abl	50
• NF-κB	14

For more targets information, please see our website at "<http://www.apexbt.com/research-area/cell-cycle/atm-atr.html>", or email us: info@apexbt.com.

Aurora Kinase Signaling Pathway



Aurora A Inhibitors

MLN8237 (Alisertib)	A4110
<p>Alisertib (MLN8237) is a selective inhibitor of Aurora A with IC50 of 1.2 nM. It has > 200-fold higher selectivity for Aurora A than Aurora B.</p> <p>DMSO MLN8237 (0.3 μM)</p> <p> <small> G2M: 34.60% G1M: 14.33% G2M: 1.93% S-Phase: 44.80% </small> </p> <p> <small> G2M: 33.85% G1M: 9.94% G2M: 11.74% S-Phase: 44.46% </small> </p> <p>MLN8237 induces G2M arrest and apoptosis.</p>	<p>Size: 5 mg, 10 mg, 50 mg, 200 mg.</p> <p>Soluble in DMSO > 10 mM</p>

MK-8745	A8807
<p>MK-8745 is a potent and selective inhibitor of Aurora A with IC50 of 0.6 nM.</p> <p>Size: 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	

VX-680 (MK-0457, Tozasertib)	A4111
<p>VX-680 is an inhibitor of Aurora with Ki of 0.6 nM, 4.6 nM, 18 nM, 30 nM and 30 nM for Aurora A, C, B, FLT3 and Bcr-Abl, respectively.</p> <p>Size: 25 mg, 100 mg, 250 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	

Danuserib (PHA-739358)	A4116
<p>Danuserib (PHA-739358) is an inhibitor of Aurora kinase for Aurora A, B and C with IC50 of 13 nM, 79 nM and 61 nM, respectively. It is modestly potent to Abl, TrkA, c-RET and FGFR1, and less potent to LCK, VEGFR2/3, c-Kit, CDK2, etc.</p> <p>Danuserib treatment affects phosphorylation of Bcr-Abl, CRKL, STAT5 and H3.</p>	<p>Size: 5 mg, 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

Aurora B Inhibitors

Barasertib (AZD1152-HQPA)	A4112
<p>Barasertib (AZD1152-HQPA) is a highly selective inhibitor of Aurora B with IC50 of 0.37 nM, ~ 100 fold more selective for Aurora B over Aurora A.</p> <p>Barasertib induces polyplidy and apoptosis in cancer cells.</p>	<p>Size: 5 mg, 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

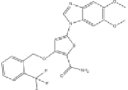
Hesperadin	A4118
<p>Hesperadin is a potent inhibitor of Aurora B with IC50 of 250 nM.</p> <p>Hesperadin inhibits kinase activity.</p>	<p>Size: 5 mg, 10 mg, 50 mg, 200 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

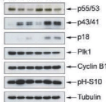
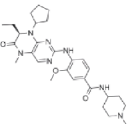
AZD1152	A3214
<p>AZD1152 is a highly selective inhibitor of Aurora kinases with IC50 of 1.37 μM and 0.37 nM for Aurora A and B, respectively.</p> <p>Size: 5 mg, 10 mg, 50 mg.</p> <p>Soluble in DMSO.</p>	

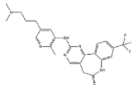
Aurora C Inhibitor

AMG-900	A4119
<p>AMG-900 is a potent and highly selective inhibitor of Aurora kinases with IC50 of 5 nM, 4 nM and 1 nM for Aurora A, B and C, respectively.</p> <p>Size: 5 mg, 10 mg, 50 mg, 200 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	

PLK1 Inhibitors

GW843682X	A3456
<p>GW843682X is a selective inhibitor of PLK1 and PLK3 with IC50 of 2.2 nM and 9.1 nM, respectively.</p> <p>Size: 5 mg, 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	

BI 2536	A3965
<p>BI 2536 is a potent inhibitor of PLK1 with IC50 of 0.83 nM.</p> <p>Bi 2536</p> <p>Fas (h) 0 3 6 0 3 6</p>  <p>Mitotic shake-off cells treated with or without BI 2536 were stimulated with FasL for the times indicated.</p>	 <p>Size: 5 mg, 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

MLN0905	A8680
<p>MLN0905 is a potent inhibitor of PLK1 with IC50 of 2 nM.</p> <p>Size: 2 mg, 5 mg, 25 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	

- CDK1/218
- CHK12
- Survivin38

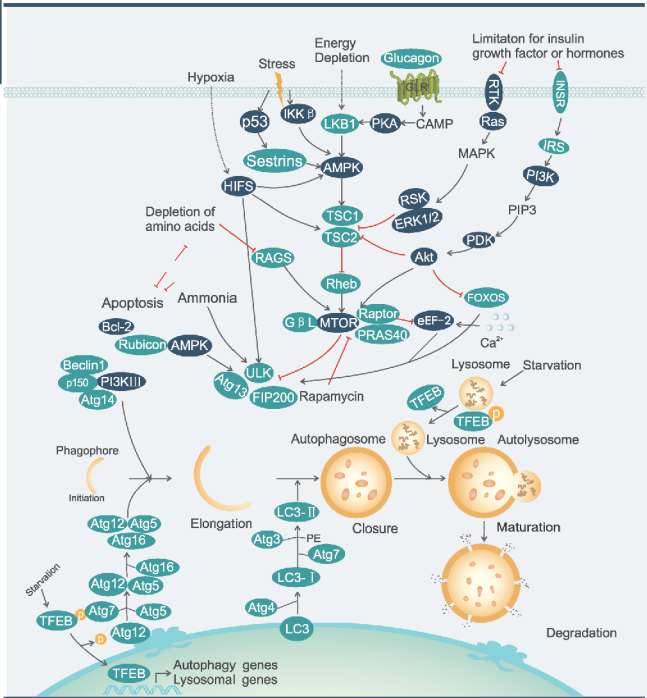
For more targets information, please see our website at "<http://www.apexbt.com/research-area/cell-cycle/aurora-kinase.html>", or email us: info@apexbt.com.

IC50s compare:

Inhibitors	Aurora A	Aurora B	Aurora C	Other targets
MLN8237	**** 1.2 nM (IC50)			
MK-8745	***** 0.6 nM (IC50)			
VX-680	***** 0.6 nM (Ki)	**** 4.6 nM (Ki)	**** 18 nM (Ki)	FLT3, Bcr-Abl
Danusertib	*** 13 nM (IC50)	*** 79 nM (IC50)	*** 61 nM (IC50)	Bcr-Abl, c-RET, FGFR, TrkA
AZD1152	* 1.37 μM (IC50)	***** 0.37 nM (IC50)		
Barasertib		***** 0.37 nM (IC50)		
Hesperadin		** 250 nM (IC50)		
AMG-900	**** 5 nM (IC50)	**** 4 nM (IC50)	***** 1 nM (IC50)	

Note: "*" represents potency. The higher the number of "*" is, the more potent the inhibitor or activator is.

Autophagy Signaling Pathway



PKA Inhibitor

H 89 2HCl	B2190
<p>H 89 2HCl is a potent inhibitor of PKA with Ki of 48 nM.</p> <p>D</p> <p>Intracellular application of the H 89 caused a hyperpolarizing shift in both Sham and SNI neurons.</p>	<p>Size: 10 mg, 50 mg, 200 mg. Soluble in DMSO > 10 mM.</p> <p>Product Citation: 1. The Journal of Neuroscience 35.38 (2015): 13244 - 13256.</p>

PKD Inhibitors

CID 2011756	A8223
<p>CID-2011756 is a cell-active, ATP competitive and specific inhibitor of PKD1.</p> <p>A</p> <p>C</p> <p>Treatment of CID-2011756 inhibits PKD1 phosphorylation at Ser 916.</p>	<p>Size: 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p>

kb NB 142-70	A3524
<p>kb NB 142-70 is a selective PKD inhibitor with IC50 of 28.3 nM, 58.7 nM and 53.2 nM for PKD1, 2 and 3, respectively.</p> <p>Size: 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p>	

CRT 0066101	A8679
<p>CRT 0066101 is a potent inhibitor of PKD with IC50 of 1 nM, 2 nM and 2.5 nM for PKD1, 3 and 2, respectively.</p> <p>Size: 10 mg. Limited solubility.</p>	

EEF-2 Inhibitor

A 484954	B5618
<p>A 484954 is an inhibitor of EEF-2.</p> <p>Size: 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p>	

RSK Inhibitors

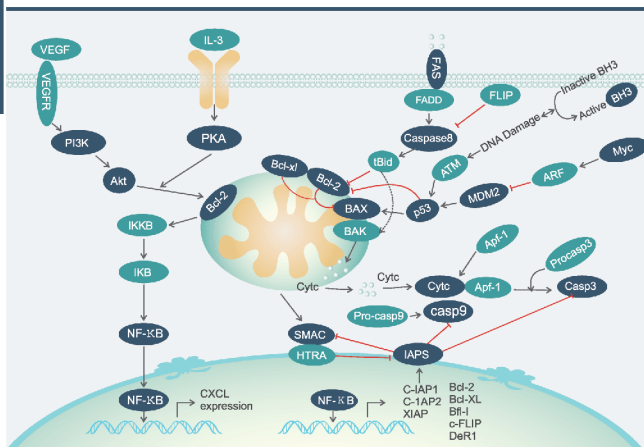
BI-D1870	B2227
<p>BI-D1870 is an ATP-competitive inhibitor for RSK1, 2, 3 and 4 with IC50 of 31 nM, 24 nM, 18 nM and 15 nM, respectively.</p> <p>Size: 5 mg, 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p>	

BIX 02565	B1295
<p>BIX 02565 is a novel inhibitor of RSK2 with IC50 of 1 nM.</p> <p>Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg. Soluble in DMSO.</p>	

- RAS27
- IKK β 38
- p5349
- AMPK60
- HIFs34
- ERK1/227
- mTOR47
- Bcl-29
- PI3K III57

For more targets information, please see our website at <http://www.apexbt.com/research-area/ubiquitination/autophagy.html>, or email us: info@apexbt.com.

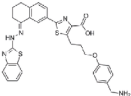
Bcl-2 Signaling Pathway



Bcl-2 Inhibitors

ABT-737	A8193	HA14-1	A8168
<p>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.</p> <p>Treatment of ABT-737 induces cell death.</p>	<p>Size: 5 mg, 10 mg, 50 mg, 100 mg, 500 mg. Soluble in DMSO > 10 mM.</p> <p>Product Citation: 1. Sci Signal. 2014 Dec 23.</p>	<p>HA14-1 is a non-peptidic ligand of a Bcl-2 surface pocket with IC50 of 9 μM.</p> <p>Size: 25 mg, 50 mg, 250 mg. Soluble in DMSO > 10 mM.</p>	

Bcl-xL Inhibitor

WEHI-539	A3935
WEHI-539 has high affinity and selectivity for Bcl-xL (IC50 = 1.1 nM) and potently kills cells by selectively antagonizing its pro-survival activity.	
Size: 10 mg. Soluble in DMSO.	Product Citation: 1.Sci Signal. 2014 Dec 23.

• PI3K	57
• Akt	59
• PKA	8
• NF-κB	14
• FAS	13
• Caspase	11
• p53	49
• MDM2	2
• IAPs	14


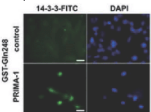
For more targets information, please see our website at <http://www.apexbt.com/research-area/apoptosis/bcl-2-family.html>, or email us: info@apexbt.com.


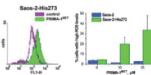
IC50s and EC50s compare:

Inhibitors	Bcl-2	Bcl-xL	Bcl-W
WEHI-539		**** 1.1 μM (IC50)	
HA14-1	* 9 μM (IC50)		
ABT-737	* 30.3 μM (EC50)	* 30.3 μM (EC50)	** 197.8 μM (EC50)

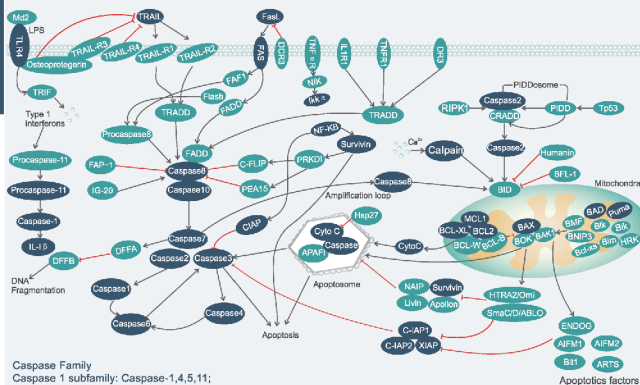
Note: "*" represents potency. The higher the number of "*" is, the more potent the inhibitor or activator is.

Bax Inhibitors

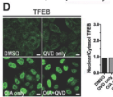
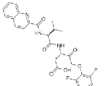
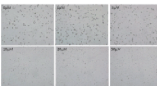
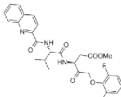
PRIMA-1	A4483
PRIMA-1 is an inhibitor of cell-permeable Bax.	
	Size: 10 mg, 50 mg.
Induction of 14-3-3 protein by PRIMA-1 treatment.	Soluble to 100 mM in sterile water.


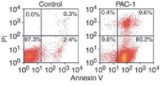
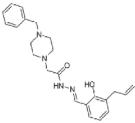
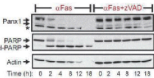
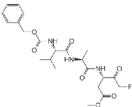
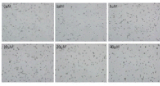
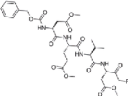
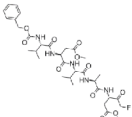
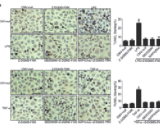
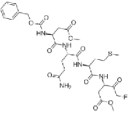
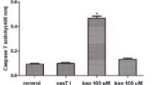

PRIMA-1MET	A4484
PRIMA-1MET is methylated derivative of PRIMA-1. It can restore mutant p53 activity.	
	Size: 10 mg, 150 mg.
Treatment of PRIMA-1 met induced ROS in a dosage dependent manner.	Soluble in DMSO > 10 mM.

Caspase Signaling Pathway

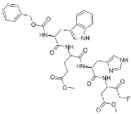


Pan-caspase Inhibitors

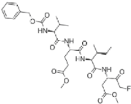
Q-VD-OPH hydrate	A1901	Q-VD(OMe)-OPH	A8165
<p>Q-VD-Oph hydrate is a cell-permeable and irreversible pan-caspase inhibitor for Caspase-1, -3, -8 and -9 with IC50 of 50 nM, 25 nM, 100 nM and 430 nM, respectively.</p>  <p>D TFB</p> <p>Treatment of O/A and QVD prolongs cell viability.</p>	 <p>Size: 1 mg, 5 mg, 10 mg, 25 mg. Soluble in DMSO.</p> <p>Product Citations: 1. Cell 160.4 (2015): 729-744. PMID: 25679764. 2. Nature (2015).</p>	<p>Q-VD(OMe)-Oph is a pan-caspase inhibitor.</p>  <p>Q-VD-OPH rescues Cisplatin-induced cell death.</p>	 <p>Size: 1 mg, 5 mg, 10 mg, 25 mg. Soluble in DMSO.</p> <p>Product Citation: 1. Cell Death & Differentiation (2015).</p>

<p>Boc-D-FMK</p> <p>Boc-D-FMK is a pan-caspase inhibitor.</p> <p>Size: 1 mg, 5 mg, 10 mg, 25 mg.</p> <p>Soluble in DMSO.</p>	<p>A1904</p> 	<p>PAC-1</p> <p>PAC-1 is a Procaspase-activating compound; it activates Procaspase-3 to produce Caspase-3 (EC50 = 0.22 μM). It also activates Procaspase-7 in a less efficient manner (EC50 = 4.5 μM).</p>  <p>Treatment of PAC-1 induces apoptosis.</p>	<p>A8177</p>  <p>Size: 5 mg, 25 mg.</p> <p>Soluble in DMSO > 10 mM.</p>
<p>Z-VAD-FMK</p> <p>Z-VAD-FMK is a cell-permeable and irreversible pan-caspase inhibitor with IC50 of 0.0015 - 5.8 mM.</p>  <p>ZVAD suppresses the proteolytic processing of Parx1.</p>	<p>A1920</p>  <p>Size: 1 mg, 5 mg, 10 mg, 25 mg.</p> <p>Soluble in DMSO > 10 mM.</p> <p>Product Citation: 1. Cancer Letters (2015). PMID: 25636517. 2. The Journal of Immunology (2015): 1401624.</p>	<p>Z-DEVD-FMK</p> <p>Z-DEVD-FMK is a cell permeable and irreversible inhibitor of Caspase-3/ CPP32. It is also an irreversible inhibitor of Caspase-6, Caspase-7, Caspase-8 and Caspase-10.</p>  <p>Size: 1 mg, 5 mg, 10 mg, 25 mg.</p> <p>Soluble in DMSO > 10 mM.</p> <p>Product Citation: 1. Elife. 2014 Dec 30; e107010.</p>	<p>A1920</p> 
Caspase-2 Inhibitor			
<p>Z-VDVAD-FMK</p> <p>Z-VDVAD-FMK is an irreversible inhibitor of Caspase-2.</p> <p>Size: 1 mg, 5 mg, 10 mg, 25 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>A1922</p> 	<p>Z-DQMD-FMK</p> <p>Z-DQMD-FMK is an inhibitor of Caspase-3. It inhibits MG 132-induced small lung cancer cell death in vitro.</p>  <p>Size: 1 mg, 5 mg, 10 mg, 25 mg.</p> <p>Soluble in DMSO > 10 mM.</p> <p>Product Citation: 1. Scientific reports 5 (2015).</p>	<p>A1921</p> 
Caspase-3 Activator and Inhibitors			
<p>Caspase-3/7 Inhibitor I</p> <p>Caspase-3/7 Inhibitor I is an inhibitor for Caspase-3 and Caspase-7 with Ki of 60 nM and 170 nM, respectively.</p>  <p>Human bladder cancer cells were treated with Caspase-3/7 inhibitor I.</p>	<p>A1925</p>  <p>Size: 1 mg, 5 mg, 10 mg, 25 mg. Soluble in DMSO.</p> <p>Product Citation: 1. Molecular carcinogenesis, 2014.</p>		

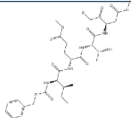
Caspase-5 Inhibitor

Z-WEHD-FMK	A1924
Z-WEHD-FMK is a potent, cell-permeable and irreversible for Caspase-5 inhibitor.	
Size: 1 mg, 5 mg, 10 mg, 25 mg.	
Soluble in DMSO.	

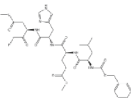
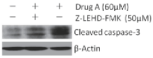
Caspase-6 Inhibitor

Z-VEID-FMK	A1923
Z-VEID-FMK is the specific recognition sequence for Caspase-6 and Mch2.	
Size: 1 mg, 5 mg, 10 mg, 25 mg.	
Soluble in DMSO.	


Caspase-8 Inhibitor


Z-LEHD-FMK	B3232
Z-IETD-FMK is a specific inhibitor of Caspase-8.	
Size: 1 mg, 5 mg.	
Soluble in DMSO.	

Caspase-9 Inhibitor


Z-LEHD-FMK	B3233
Z-LEHD-FMK is a specific and irreversible inhibitor of Caspase-9.	
 <p> - + + Drug A (60µM) - + - Z-LEHD-FMK (50µM) Cleaved caspase-3 β-Actin </p>	
Effect of Z-LEHD-FMK.	
Size: 1 g.	
Soluble in DMSO.	

TLR4 Inhibitors

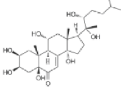
TAK-242	A3850
TAK-242 is recognized as a novel small-molecule compound selectively inhibiting TLR4 signaling.	
Size: 10 mg, 100 mg.	
Soluble in DMSO.	

TAK-242 S enantiomer	A3851
TAK-242 S enantiomer, S enantiomer of TAK-242, is a small-molecule inhibitor of TLR4 signaling.	
Size: 100 mg.	
Soluble in DMSO.	


IL-1β Inhibitor

Pirfenidone	B2288
Pirfenidone is an inhibitor for TGF-β production and TGF-β stimulated collagen production. It also reduces production of TNF-α and IL-1β.	
Size: 10 mg, 50 mg.	
Soluble in DMSO > 10 mM.	

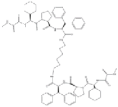
FasL Inhibitor

Muristerone A	A4466
Muristerone A is a TRAIL- and FasL-induced apoptosis inhibitor.	
Size: 1 mg.	
Soluble in DMSO > 10 mM.	

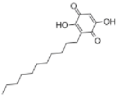
FAS Inhibitor

C75	A4449
C75 is an inhibitor of FAS.	
Size: 10 mg, 50 mg.	
Soluble in DMSO > 10 mM.	

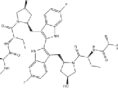
cIAP Inhibitor

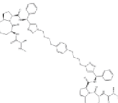
BV6	B4653
BV6, a small-molecule Smac mimetic, is a selective inhibitor of cIAP proteins with IC50 of 7.2 μ M. Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO.	

XIAP Inhibitor

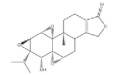
Embelin	A8235
Embelin is an inhibitor of XIAP with IC50 of 4.1 μ M. Size: 10 mg, 50 mg. Soluble in DMSO > 10 mM.	

c-IAP1 Inhibitors

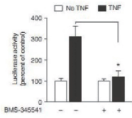
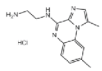
Birinapant (TL32711)	A4219
Birinapant (TL32711) is a potent antagonist for XIAP and c-IAP1 with Kd of 45 nM and < 1 nM, respectively. Size: 10 mg, 50 mg. Soluble in DMSO > 10 mM.	

SM-164	A8815
SM-164 is a bivalent mimetic of Smac with Ki of 0.31 nM, 1.1 nM and 0.56 nM for c-IAP1, c-IAP2 and XIAP, respectively. Size: 5 mg, 5 mg. Soluble in DMSO.	

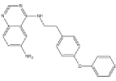
c-IAP2 Inhibitor


Triptolide	A3891
Triptolide is an inhibitor of c-IAP2, IL-2, MMP3, MMP7 and MMP19. Size: 5 mg, 10 mg, 25 mg, 1 g. Soluble in DMSO > 10 mM.	

IKK Inhibitor

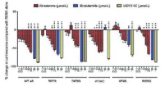

BMS-345541	A3248
BMS-345541 is a highly selective inhibitor of IKK-1 and IKK-2 with IC50 of 4 μ M and 0.3 μ M, respectively.  BMS-345541 inhibits NF- κ B activation in primary cortical neurons.	 Size: 5 mg, 10 mg, 50 mg. Soluble in DMSO.

NF- κ B Inhibitors

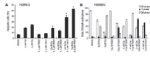
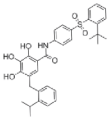
QNZ (EVP4593)	A4217
QNZ is an inhibitor of NF- κ B with IC50 of 11 nM in human Jurkat cells. Size: 5 mg, 25 mg. Soluble in DMSO > 10 mM.	

JSH-23	B1645
JSH-23 is an inhibitor of NF- κ B transcriptional activity with an IC50 of 7.1 μ M. Size: 5 mg, 25 mg. Soluble in DMSO > 10 mM.	

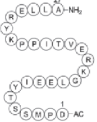
Cyto C Inhibitor

Abiraterone	A4240
Abiraterone is a potent inhibitor of CYP17 with IC50 of 2 nM.  Abiraterone inhibits AR.	 Size: 5 mg, 25 mg, 100 mg. Limited solubility.

Mcl-1 Inhibitor

TW-37	A4234
<p>TW-37 is a novel nonpeptide inhibitor to recombinant Bcl-2, Bcl-xL and Mcl-1 with K_i of 0.29 μM, 1.11 μM and 0.26 μM, respectively.</p>  <p>TW-37 induces apoptosis in tumor cell line.</p>	 <p>Size: 10 mg, 25 mg, 50 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

Calpain Inhibitor

Acetyl-Calpastatin (184-210) (human)	A4410
<p>Acetyl-Calpastatin is a selective Calpain inhibitor that strongly inhibits Calpain I ($K_i = 0.2$ nM) and II.</p> <p>Size: 1 mg.</p> <p>Soluble to 5 mg/ml in sterile water.</p>	 <p>Size: 10 mg, 25 mg, 50 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

Caspase related kits 86
 Caspase related enzymes 128
 Caspase related peptides 131

• **Bax** 10
 • **Survivin** 38
 • **Bcl-xL** 10
 • **Bcl-2** 9

For more targets information, please see our website at "<http://www.apexbt.com/research-area/apoptosis/apoptosis-caspase.html>", or email us: info@apexbt.com.

IC50s compare:

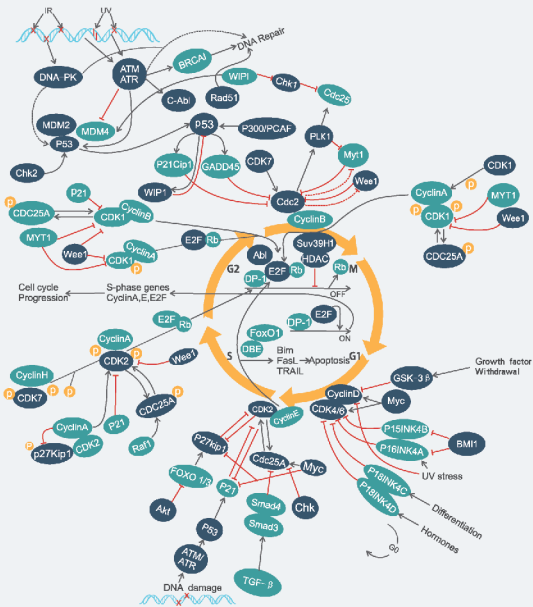
Caspase inhibitors	Pan-caspase	Caspase-1	Caspase-2
Caspase-3/7 Inhibitor 1			
Q-VD-Oph hydrate		**** 50 nM (IC50)	
Q-VD(OMe)-Oph	**** 50 nM (IC50)		
VX-765		***** 0.8 nM (KI)	
Z-VDAD-FMK			*
Z-DEVD-FMK			*
Z-DQMD-FMK			
Z-WEHD-FMK			
Z-VEID-FMK			
Z-FA-FMK			*
Z-IETD-FMK			
Z-LEHD-FMK			
Z-VAD-FMK	*		
Boc-D-FMK	*		

Caspase-3	Caspase-5	Caspase-6	Caspase-7	Caspase-8	Caspase-9	Caspase-10
*** 50 nM (KI)			** 170 nM (KI)			
*** 30 nM (IC50)					*** 100 nM (IC50)	** 430 nM (IC50)
*** 50 nM (IC50)				*** 100 nM (IC50)		
				*** 0.3 nM (KI)	** 430 nM (IC50)	
***		*	*	*		*
*						
	***	*				
*	*		*			

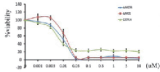

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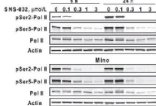
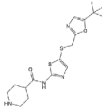
Note: *ⁿ represents potency. The higher the number of *ⁿ is, the more potent the inhibitor or activator is.


CDK Signaling Pathway

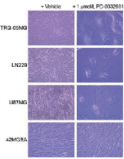
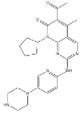


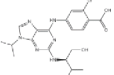
Pan-CDK Inhibitors

Dinaciclib (SCH727965)	A8412
<p>Dinaciclib (SCH727965) is a novel and potent inhibitor of CDK for CDK2, CDK5, CDK1 and CDK9 with IC50 of 1 nM, 1 nM, 3 nM and 4 nM, respectively.</p>  <p>Treatment of Dinaciclib decreases cell viability.</p>	 <p>Size: 5 mg, 25 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

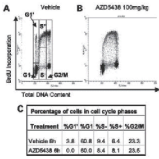

SNS-032 (BMS-387032)	A1980
<p>SNS-032 is a selective inhibitor of CDK2 with IC50 of 48 nM.</p>  <p>Treatment of SNS-032 inhibits transcription.</p>	 <p>Size: 5 mg, 25 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

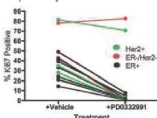
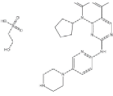
NVP-LCQ195	A3676
<p>NVP-LCQ195 is a pan-inhibitor of CDKs.</p> <p>Size: 5 mg, 10 mg.</p> <p>Soluble in DMSO.</p>	

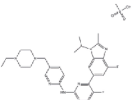
CDK4 Inhibitors	
<p>PD 0332991 (Palbociclib) HCl</p> <p>Palbociclib (PD 0332991) HCl is a highly selective inhibitor of CDK4 and 6 with IC50 of 11 nM and 16 nM, respectively.</p>  <p>Treatment of PD 0332991 Induces cell cycle arrest.</p>	<p>A8316</p>  <p>Size: 5 mg, 25 mg.</p> <p>Limited solubility.</p>

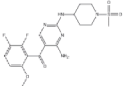
Purvalanol B	A8565
<p>Purvalanol B is a selective inhibitor of CDK1, 2 and 4.</p> <p>Size: 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	

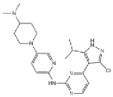
CDK1/2 Inhibitors

AZD 5438	A8326
<p>AZD 5438 is a potent inhibitor of CDK1, 2 and 9 with IC50 of 16 nM, 6 nM and 20 nM, respectively.</p>  <p>AZD 5438 inhibits cell proliferation.</p>	 <p>Size: 25 mg, 100 mg, 250 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

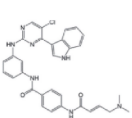
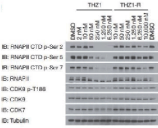
Palbociclib(PD0332991) Isethionate	A8335
<p>Palbociclib (PD0332991) Isethionate is a highly selective inhibitor of CDK4 and 6 with IC50 of 11 nM and 16 nM, respectively.</p>  <p>Quantification of Ki67 from PD0332991 treated cultures.</p>	 <p>Size: 10 mg, 25 mg, 50 mg.</p> <p>Limited solubility.</p>

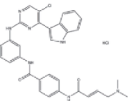
LY2835219	A1794
LY2835219 is a potent and selective inhibitor of CDK4 and 6 with IC50 of 2 nM and 10 nM, respectively.	
Size: 5 mg, 25 mg, 100 mg.	
Soluble in DMSO > 10 mM.	

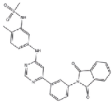
R547	A8642
R547 is a potent ATP-competitive inhibitor of CDK1, 2 and 4 with Ki of 2 nM, 3 nM and 1 nM, respectively.	
Size: 10 mg, 100 mg.	
Soluble in DMSO > 10 mM.	


CDK4 inhibitor	B1233
CDK4 inhibitor is a selective inhibitor of CDK4 with IC50 of 10 nM.	
Size: 10 mg, 25 mg, 50 mg, 100 mg.	
Soluble in DMSO.	

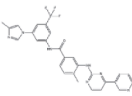
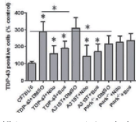
CDK7 Inhibitors

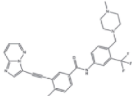
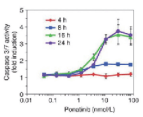
THZ1	A8882
THZ1 is an irreversible, potent and selective inhibitor of CDK7 with an IC50 of 3.2 nM.	
	Size: 5 mg, 10 mg, 25 mg. Soluble in DMSO.
THZ1 inhibits RNAPII CTD phosphorylation by covalently targeting a unique cysteine located.	

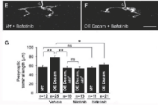
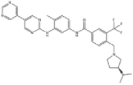
THZ1 Hydrochloride	B4736
THZ1 is a covalent inhibitor of CDK7 with IC50 of 3.2 nM.	
Size: 5 mg, 10 mg, 25 mg.	
Soluble in DMSO.	

CDK9 Inhibitor	
CDK9 inhibitor	A3294
CDK9 inhibitor is a small-molecule selective inhibitor of CDK9 with IC50 of 39 nM.	
Size: 5 mg, 10 mg, 50 mg, 250 mg.	
Soluble in DMSO.	

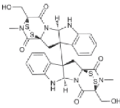
BMI1 Inhibitor	
PTC-209	B3179
PTC-209 is a small-molecule inhibitor of BMI1 with IC50 of 0.5 μM.	
Size: 2 mg, 5 mg.	
Soluble in DMSO > 10 mM.	

Abl Inhibitors	
Nilotinib (AMN-107)	A8232
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.
Histograms represent stereological quantification of TDP-43 expressing cells.	

Ponatinib (AP24534)	A5467
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.
Treatment of Ponatinib induces apoptosis.	

Bafetinib (INNO-406)	B1011
<p>Bafetinib (INNO-406) is an orally bioavailable, dual inhibitor of Bcr-Abl and Lyn-kinase with IC50 of 5.8 nM and 19 nM, respectively.</p>  <p>Figure 6: Inhibition of Dexam-induced presynaptic arbor enlargement in vivo. Panel a shows fluorescence microscopy images of neurons treated with vehicle or Bafetinib. Panel b is a bar graph showing the percentage of Dexam-induced arbor enlargement for various treatments.</p> <p>Nilotinib and bafetinib act through Abl inhibition to mitigate Dexam-induced presynaptic arbor enlargement in vivo.</p>	 <p>Size: 5 mg, 10 mg, 50 mg, 200 mg.</p> <p>Soluble in DMSO > 10 mM.</p> <p>Product Citation: 1. eLife 4 (2015): e05196. PMID: 25988807.</p>

SUV39H1 Inhibitor

Chaetocin	A4502
<p>Chaetocin is a lysine-specific histone methyltransferase inhibitor, which reduces the histone methyltransferase effects of SUV39H1 with IC50 of 0.8 μM.</p> <p>Size: 1 mg.</p> <p>Limited solubility.</p>	

- HDAC31
- Akt59
- Myc42
- GSK-352

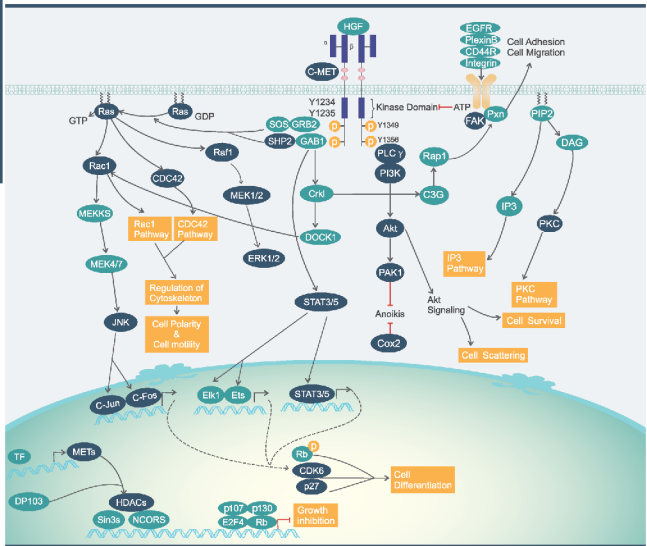
For more targets information, please see our website at "<http://www.apexbt.com/research-area/cell-cycle/cyclin-d-kinase.html>", or email us: info@apexbt.com.

IC50s compare:

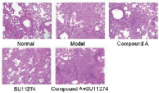
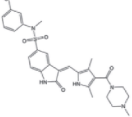
Inhibitors	Pan-CDK	CDK1	CDK2	CDK3	CDK4	CDK5	CDK6	CDK7	CDK9
Dinaciclib		**** 3 nM(IC50)				**** 1 nM(IC50)			**** 4 nM(IC50)
NVP-LCQ195		*	*	*		*			*
Purvalanol B *		*	*		*				
AZD-5438		*** 16 nM(IC50)	**** 6 nM(IC50)						*** 20 nM(IC50)
SNS-032			*** 48 nM(IC50)					*** 62 nM(IC50)	**** 4 nM(IC50)
Palbociclib HCl					*** 11 nM(IC50)		*** 16 nM(IC50)		
LY2835219					**** 2 nM(IC50)		**** 10 nM(IC50)		
Palbociclib Isethionate					*** 11 nM(IC50)		*** 16 nM(IC50)		
CDK4 inhibitor	*** 10 nM(IC50)								
THZ1								**** 3.2 nM(IC50)	
THZ1 Hydrochloride								**** 3.2 nM(IC50)	
CDK9 inhibitor									*** 39 nM(IC50)

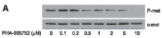
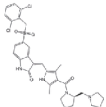
Note: *-* represents potency. The higher the number of *-* is, the more potent the inhibitor or activator is.

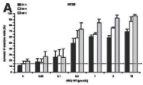

C-MET Signaling Pathway

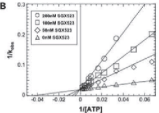
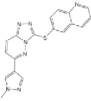


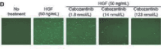
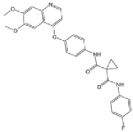
c-Met Inhibitors

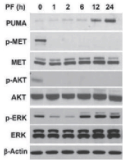
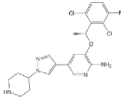
SU11274	A2678
<p>SU11274 is a selective inhibitor of c-Met tyrosine kinase with IC50 of 10 nM.</p>  <p>SU11274 abrogates the inhibition effects of compound A on pulmonary fibrosis induced by BLM.</p>	 <p>Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

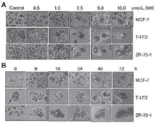
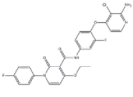
PHA-665752	A2307
<p>PHA-665752 is a potent, selective and ATP-competitive inhibitor of c-Met with IC50 of 9 nM, > 50-fold selectivity for c-Met than RTKs or STKs.</p>  <p>Treatment of PHA-665752 inhibits c-Met phosphorylation.</p>	 <p>Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

Tivantinib (ARQ 197)	A8325
<p>Tivantinib (ARQ 197) is the first non-ATP-competitive inhibitor of c-Met with Ki of 0.355 μM, little activity to Ron, and no inhibition to EGFR, InsR, PDGFRα or FGFR1/4.</p>  <p>Effect of ARQ 197 treatment on apoptosis.</p>	 <p>Size: 5 mg, 20 mg, 100 mg. Soluble in DMSO > 10 mM.</p>




SGX-523	A1196
<p>SGX-523 is a selective inhibitor of c-Met with IC50 of 4 nM.</p>  <p>SGX-523 inhibits MET kinase.</p>	 <p>Size: 5 mg, 25 mg, 100 mg. Limited solubility.</p>

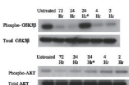
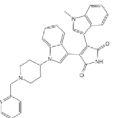
Cabozantinib (XL184, BMS-907351)	A2977
<p>Cabozantinib (XL184, BMS-907351) is a potent inhibitor of VEGFR2 with IC50 of 0.035 nM and also inhibits c-Met, Ret, Kit, Flt-1, Flt-3, Flt-4, Tie2 and AXL with IC50 of 1.3 nM, 4 nM, 4.6 nM, 12 nM, 11.3 nM, 6 nM, 14.3 nM and 7 nM, respectively.</p>  <p>Treatment of Cabozantinib inhibits cell invasion.</p>	 <p>Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

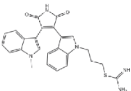
(R)-Crizotinib	A3020
<p>(R)-Crizotinib (PF-02341066) is a potent inhibitor of c-Met and ALK with IC50 of 11 nM and 24 nM, respectively.</p>  <p>HCT116 cells were treated with 12 μmol/L Crizotinib for indicated time.</p>	 <p>Size: 5 mg, 10 mg, 50 mg. Limited solubility.</p>


BMS-777607	A5703
<p>BMS-777607 is an inhibitor of Met-related for c-Met, Axl, Ron and Tyro3 with IC50 of 3.9 nM, 1.1 nM, 1.8 nM and 4.3 nM, respectively. It is 40-fold more selective for Met-related targets versus Lck, VEGFR2, TrkA/B, and more than 500-fold greater selectivity versus all other receptor and non-receptor kinases.</p>  <p>Treatment of BMS-777607 induces polyploidy.</p>	 <p>Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

PKC Inhibitors

<p style="text-align: center;">Staurosporine</p> <p>Staurosporine is a potent inhibitor of PKC for PKCα, γ and η with IC50 of 2 nM, 5 nM and 4 nM, respectively.</p> <div style="display: flex; justify-content: space-around;">   </div> <p style="text-align: center;">Treatment of Staurosporine induces apoptosis.</p>	<p style="text-align: center;">A8192</p>  <p style="text-align: center;">Size: 1 mg, 5 mg, 10 mg. Limited solubility.</p> <p>Product Citation: 1. PloS one 9.9 (2014): e107010.</p>
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<p style="text-align: center;">Enzastaurin (LY317615)</p> <p>Enzastaurin (LY317615) is a potent and selective inhibitor of PKCβ with IC50 of 6 nM.</p> <div style="display: flex; justify-content: space-around;">  </div> <p style="text-align: center;">Enzastaurin decreases phosphorylation of GSK3β and AKT.</p>	<p style="text-align: center;">A1670</p>  <p style="text-align: center;">Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>
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<p style="text-align: center;">Ro 31-8220</p> <p>Ro 31-8220 is an inhibitor of pan-PKC with IC50 of 5 nM, 24 nM, 14 nM, 27 nM, and 24 nM for PKCα, βI, βII, γ, and ϵ, respectively.</p> <p>Size: 10 mg, 50 mg.</p> <p>Soluble in DMSO.</p>	<p style="text-align: center;">B1287</p> 
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<p style="text-align: center;">Go 6976</p> <p>Go 6976 is a selective inhibitor of PKC with IC50 of 20 nM.</p> <p>Size: 5 mg, 25 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p style="text-align: center;">A8341</p> 
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- Ras27
- CDC42 74
- Raf163
- SHP2 42
- FAK 26
- PI3K 57
- MEK1/2 43
- Akt 59
- ERK1/2 27
- PAK1 27
- COX2 74
- JNK 50
- METs 22
- HDACs 31

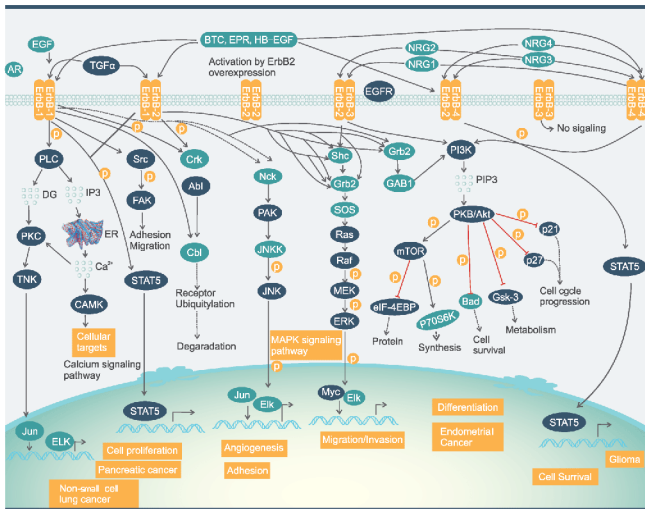
For more targets information, please see our website at <http://www.apexbt.com/research-area/tyrosine-kinase/c-met.html>, or email us: info@apexbt.com.

IC50s compare:

Inhibitors	c-Met
SU11274	**** 10 nM (IC50)
PHA-665752	**** 9 nM (IC50)
Tivantinib	** 0.355 μ M (KI)
BMS-777607	**** 3.9 nM (IC50)
(R)-Crizotinib	*** 11 nM (IC50)
Cabozantinib	**** 1.3 nM (IC50)
SGX-523	**** 4 nM (IC50)


Note: *** represents potency. The higher the number of *** is, the more potent the inhibitor or activator is.

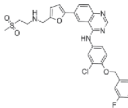
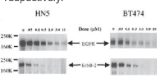
EGFR Signaling Pathway



EGFR

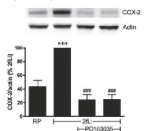
EGFR Inhibitors

Compound 56	A8197
Compound 56 is a cell-permeable, reversible and ATP-competitive inhibitor of tyrosine kinase activity of EGFR with IC50 of 0.006 nM.	
Size: 500 μ g, 5 mg.	
Soluble in DMSO.	

Lapatinib	A8218
Lapatinib is a potent inhibitor of EGFR and HER2 with IC50 of 10.8 nM and 9.2 nM, respectively.	
	Size: 25 mg, 100 mg.
Treatment of Lapatinib Inhibits EGFR and ErbB2 phosphorylation.	Soluble in DMSO > 10 mM.

PD153035 hydrochloride**A8199**

PD153035 is a potent and specific inhibitor of EGFR with Ki and IC50 of 5.2 pM and 29 pM, respectively.



Treatment of EGFR inhibitor PD153035.



Size: 10 mg, 50 mg.

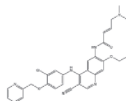
Limited solubility.

Neratinib (HKI-272)**A8322**

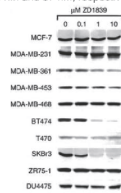
Neratinib (HKI-272) is a highly selective inhibitor of HER2 and EGFR with IC50 of 59 nM and 92 nM, respectively.

Size: 5 mg, 25 mg.

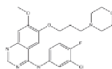
Limited solubility.

**Gefitinib (ZD1839)****A8219**

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.



Treatment of Gefitinib effects Akt phosphorylation.

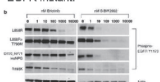


Size: 100 mg, 250 mg.

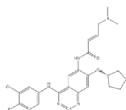
Soluble in DMSO > 10 mM.

Afatinib (BIBW2992)**A8247**

Afatinib (BIBW2992) is an irreversible inhibitor of EGFR/HER2 for EGFR (wt), EGFR (L858R), EGFR (L858R/T790M) and HER2 with IC50 of 0.5 nM, 0.4 nM, 10 nM and 14 nM, respectively; 100-fold more active against Gefitinib-resistant L858R-T790M EGFR mutant.



Treatment of Afatinib inhibits EGFR phosphorylation.

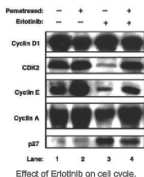


Size: 5 mg, 10 mg, 50 mg.

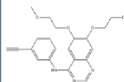
Soluble in DMSO > 10 mM.

Erlotinib Hydrochloride**A8234**

Erlotinib Hydrochloride is a selective inhibitor of EGFR with IC50 of 2 nM, > 1000-fold more sensitive for EGFR than human c-Src or v-Abl.



Effect of Erlotinib on cell cycle.

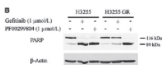


Size: 1 g, 5 g.

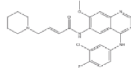
Limited solubility.

Dacomitinib (PF299804, PF299)**A8319**

Dacomitinib is a potent and irreversible inhibitor of EGFR with IC50 of 6 nM.



Treatment of Dacomitinib induces apoptosis.

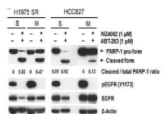


Size: 5 mg, 25 mg.

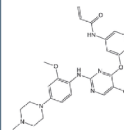
Soluble in DMSO > 10 mM.

WZ4002**A1389**

WZ4002 is a novel and mutant-selective inhibitor of EGFR for EGFR (L858R) and EGFR (T790M) with IC50 of 2 nM and 8 nM, respectively.



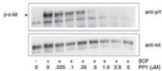

WZ4002 inhibits EGFR phosphorylation and induces apoptosis.

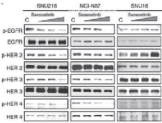
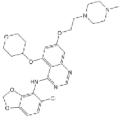


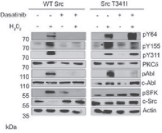
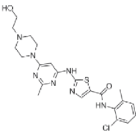
Size: 5 mg, 25 mg, 100 mg.

Soluble in DMSO > 10 mM.

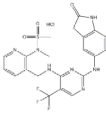
Src Inhibitors

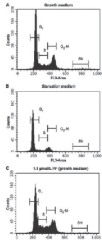
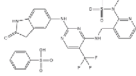
PP1	A8215
<p>PP1 is a potent and selective inhibitor of Src for Lck and Fyn with IC50 of 5 nM and 6 nM, respectively.</p>  <p>PP1 inhibits c-KI autophosphorylation.</p>	 <p>Size: 5 mg, 10 mg, 25 mg. Soluble in DMSO > 10 mM.</p>

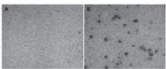
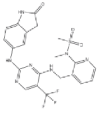
Saracatinib (AZD0530)	A2133
<p>Saracatinib (AZD0530) is a potent inhibitor of Src with IC50 of 2.7 nM, and potent to c-Yes, Fyn, Lyn, Blk, Fgr and Lck; less active for Abl and EGFR (L858R and L861Q).</p>  <p>Treatment of Saracatinib affects the phosphorylation of EGFR, HER2 and HER4.</p>	 <p>Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

Dasatinib (BMS-354825)	A3017
<p>Dasatinib is a small-molecule inhibitor of both the Src and Bcr-Abl tyrosine kinases with IC50 of 0.5 nM and 1 nM, respectively.</p>  <p>293T cells were transfected with wild type c-Abl, or the gatekeeper mutation for c-Abl T315I.</p>	 <p>Size: 100 mg, 500 mg. Soluble in DMSO > 10 mM.</p>


FAK Inhibitors

PF-562271 HCl	A8345
<p>PF-562271 HCl, the hydrochloride salt of PF-562271, is a potent, ATP-competitive, reversible inhibitor of FAK with IC50 of 1.5 nM.</p> <p>Size: 5 mg, 50 mg. Soluble in DMSO > 10 mM.</p>	

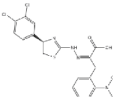
PF-00562271	A8320
<p>PF-00562271, the benzene sulfonate salt of PF-562271, is a potent, ATP-competitive and reversible inhibitor of FAK with IC50 of 1.5 nM, ~10-fold less potent for Pyk2 than for FAK, and >100-fold selectivity against other protein kinases, except for some CDKs.</p>  <p>Treatment of PF-00562271 affects cell cycle.</p>	 <p>Size: 5 mg, 25 mg. Soluble in DMSO > 10 mM.</p>

PF-562271	A8310
<p>PF-562271 is a potent, ATP-competitive and reversible inhibitor of FAK with IC50 of 1.5 nM, ~10-fold less potent for Pyk2 than for FAK, and >100-fold selectivity against other protein kinases, except for some CDKs.</p>  <p>Treatment of PF-00562271 induces apoptosis.</p>	 <p>Size: 5 mg, 25 mg. Soluble in DMSO > 10 mM.</p>

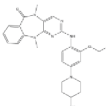
RAS Inhibitor

Kobe0065	B3586
Kobe0065 is a small-molecule inhibitor of Ras with K_i of 46 μM for the binding of H-Ras.GTP to c-Raf-1.	
Size: 1 mg.	
Soluble in DMSO.	

EIF4E Inhibitor

4EGI-1	B3696
4EGI-1 is a competitive inhibitor of EIF4E/EIF4G interaction by binding to EIF4E with K_d of 25 μM .	
Size: 10 mg, 25 mg.	
Soluble in DMSO > 10 mM.	

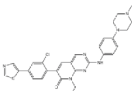
ERK Inhibitor

XMD8-92	A3943
XMD8-92 is a potent and selective inhibitor of ERK5 with K_d of 80 nM.	
Size: 10 mg, 50 mg, 100 mg.	
Soluble in DMSO > 10 mM.	


• STAT	41
• PLC	34
• PKC	23
• JNK	50
• CaMK	34
• Abl	19
• Raf	63
• MEK	43
• PI3K	57
• Akt	59
• mTOR	47
• GSK-3	52

For more targets information, please see our website at "<http://www.apexbt.com/research-area/tyrosine-kinase/egfr.html>", or email us: info@apexbt.com.

PAK Inhibitor

FRAX597	B1162
FRAX597 is a potent and ATP-competitive inhibitor of group I p21-activated kinases (PAKs) with IC_{50} of 8 nM, 13 nM and 19 nM for PAK1, 2 and 3, respectively.	
Size: 5 mg, 25 mg.	
Soluble in DMSO > 10 mM.	

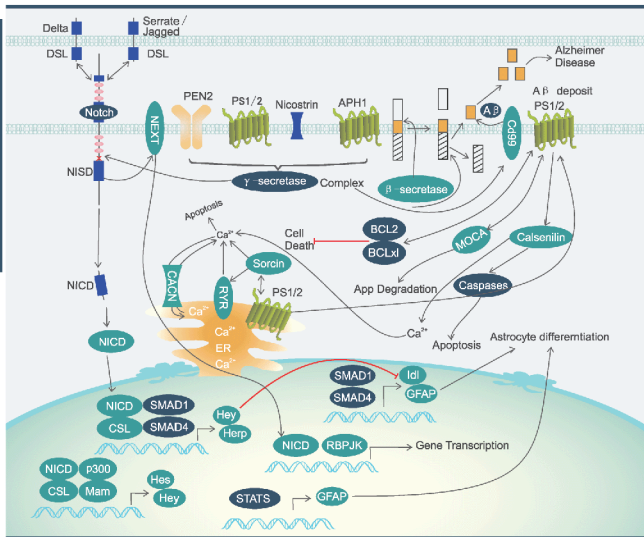
P27 Inducer

SMIP004	A3826
SMIP004 is a novel inducer of cancer-cell selective apoptosis of human prostate cancer cells with IC_{50} of 1.09 μM .	
Size: 5 mg, 10 mg, 25 mg, 50 mg.	
Soluble in DMSO.	

Inhibitors	ErbB1 (EGFR,HER1)	ErbB2 (HER2)	ErbB3 (HER3)	L858R /T790M EGFR	L858R EGFR
Compound 56	***** 0.006 nM(IC50)				
Lapatinib	*** 10.8 nM(IC50)	**** 9.2 nM(IC50)			
PD153035 hydrochloride	***** 0.029 nM(IC50) 0.0052 nM(Ki)				
Afatnib	***** 0.5 nM(IC50)	*** 14 nM(IC50)			
Dacomitinib	**** 6 nM(IC50)	*** 45.7 nM(IC50)	*** 73.7 nM(IC50)		
Gefitinib	*** 26-37 nM(EC50)				
Erlotinib Hydrochloride	**** 2 nM(IC50)				
WZ4002				**** 8 nM(IC50)	**** 2 nM(IC50)
Neratinib	*** 92 nM(IC50)	*** 59 nM(IC50)			

Note: * represents potency. The higher the number of * is, the more potent the inhibitor or activator is.

Gamma Secretase Signaling Pathway



γ-secretase Inhibitors

γ-secretase Inhibitors		RO4929097	A4005
<p>DAPT (GSI-IX)</p> <p>DAPT (GSI-IX) is a novel inhibitor of γ-secretase with IC50 of 20 nM in HEK 293 cells.</p> <p>Treatment of DAPT increases CDK5 level.</p>	<p>A8200</p> <p>Size: 5 mg, 50 mg, 500 mg. Soluble in DMSO > 10 mM.</p>	<p>RO4929097</p> <p>RO4929097 is an inhibitor of γ-secretase with IC50 of 4 nM, inhibiting cellular processing of Aβ40 and Notch with EC50 of 14 nM and 5 nM, respectively.</p> <p>RO4929097 inhibits cell proliferation.</p>	<p>A4005</p> <p>Size: 5 mg, 10 mg, 50 mg, 200 mg. Soluble in DMSO > 10 mM.</p>

MK-0752	A4006
<p>MK-0752 is a potent γ-secretase inhibitor in clinical development (IC₅₀ = 50 nM).</p> <p>Plasma levels of Aβ during and after γ secretase inhibition.</p>	<p>Size: 5 mg, 10 mg, 50 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

YO-01027 (Dibenzazepine, DBZ)	A4018												
<p>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.</p> <p>Cell lines treated with DBZ</p> <table border="1"> <thead> <tr> <th>MCF7</th> <th>MDA-MB-231</th> <th></th> </tr> </thead> <tbody> <tr> <td>10 μMol DBZ</td> <td>10 μMol DBZ</td> <td>NI-ICD</td> </tr> <tr> <td>Control</td> <td>Control</td> <td>N4-ICD</td> </tr> <tr> <td></td> <td></td> <td>Actin</td> </tr> </tbody> </table> <p>Cleaved Notch in MDA-MB-231 with or without DBZ.</p>	MCF7	MDA-MB-231		10 μ Mol DBZ	10 μ Mol DBZ	NI-ICD	Control	Control	N4-ICD			Actin	<p>Size: 5 mg, 10 mg, 25 mg, 50 mg. Soluble in DMSO > 10 mM.</p>
MCF7	MDA-MB-231												
10 μ Mol DBZ	10 μ Mol DBZ	NI-ICD											
Control	Control	N4-ICD											
		Actin											

Notch Inhibitor	
<p>FLI-06</p> <p>FLI-06 is a novel inhibitor of Notch signaling with EC₅₀ of 2.3 μM.</p> <p>Size: 10 mg, 25 mg. Soluble in DMSO > 10 mM.</p>	<p>B3083</p>

IC₅₀s compare:

Inhibitors	γ -secretase	γ -secretase (APP)	γ -secretase (A β 40)	γ -secretase (Notch)
DAPT		*** 20 nM(IC ₅₀)		
RO4929097	**** 4 nM(IC ₅₀)		*** 14 nM(IC ₅₀)	**** 5 nM(IC ₅₀)
MK-0752	**** 5 nM(IC ₅₀)			
YO-01027		**** 2.6 nM(IC ₅₀)		**** 5 nM(IC ₅₀)

Note: *ⁿ represents potency. The higher the number of *ⁿ, the more potent the inhibitor or activator is.

A β Blocker

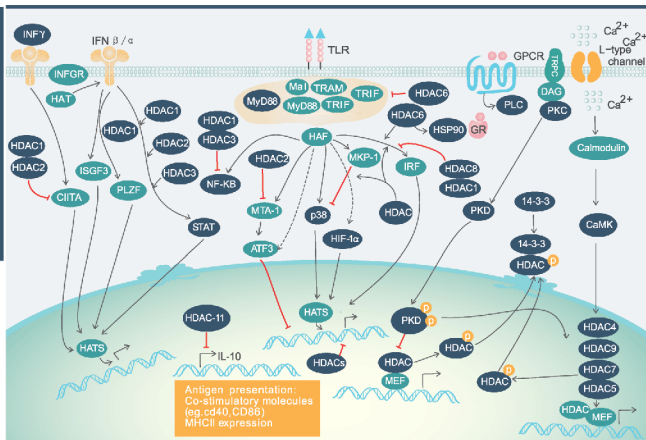
Semagacestat (LY450139)	A8190
<p>Semagacestat (LY450139) is a blocker of γ-secretase for Aβ42, 40 and 38 with IC₅₀ of 10.9 nM, 12.1 nM and 12.0 nM, respectively. It also inhibits Notch signaling with IC₅₀ of 14.1 nM.</p> <p>N-cadherin and EphA4 processing in the presence of LY450139.</p>	<p>Size: 5 mg, 10 mg, 50 mg, 200 mg. Soluble in DMSO > 10 mM.</p>

- Bcl-29
- Bcl-xL10
- Caspase11
- STATS41

For more targets information, please see our website at <http://www.apexbt.com/research-area/proteases/gamma-secretase.html>, or email us: info@apexbt.com.

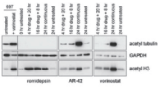
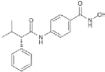
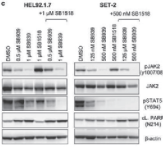
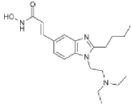
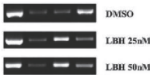
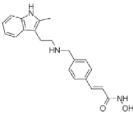
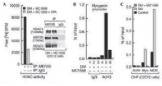
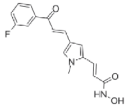
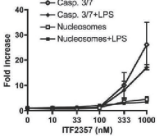
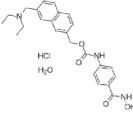
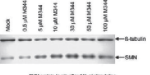
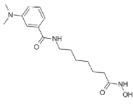
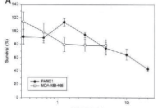
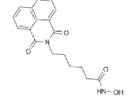
HDAC Signaling Pathway

HDAC



Pan-HDAC Inhibitors

Vorinostat	A4084	Trichostatin A (TSA)	A8183
<p>Vorinostat (suberoylanilide hydroxamic acid, SAHA) is an inhibitor of HDAC with IC50 of 0 nM.</p> <p>HA inhibits proliferation in cancer cell.</p>	<p>Size: 500 mg. Soluble in DMSO > 10 mM.</p> <p>Product Citation: 1. Scientific reports 5 (2015).</p>	<p>Trichostatin A is an inhibitor of HDAC with IC50 of 1.8 nM.</p> <p>TSA replaces FGF-2 in the reprogramming process.</p>	<p>Size: 1 mg, 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

<p>AR-42</p> <p>AR-42 is an inhibitor of HDAC with IC50 of 30 nM.</p>  <p>AR-42 increases the acetylation of histone H3 and tubulin.</p>	<p>A4104</p>  <p>Size: 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p> <p>Product Citation: 1. Epigenomics 7.4 (2015): 641 - 652.</p>	<p>Pracinostat (SB939)</p> <p>Pracinostat (SB939) is a potent inhibitor of HDAC with IC50 of 40 - 140 nM with exception for HDAC6.</p>  <p>Pracinostat downregulates JAK signaling.</p>  <p>Size: 5 mg, 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p>	
<p>Panobinostat (LBH589)</p> <p>Panobinostat (LBH589) is a novel and broad-spectrum inhibitor of HDAC with IC50 of 5 nM.</p>  <p>In IgG Ac-H3 C/EBPβ</p> <p>ChIP analysis of the binding of C/EBPβ aromatase in the presence of Panobinostat.</p>	<p>A8178</p>  <p>Size: 10 mg, 50 mg, 200 mg, 500 mg. Soluble in DMSO > 10 mM.</p>	<p>MC1568</p> <p>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.</p>  <p>MC1568 blocks MEF2D transcriptional activity in C2C12 cells.</p>  <p>Size: 10 mg, 25 mg. Soluble in DMSO > 10 mM.</p>	<p>A4094</p>
<p>ITF2357 (Givinostat)</p> <p>ITF2357 (Givinostat) is a potent inhibitor of HDAC with IC50 of 7.5 - 16 nM.</p>  <p>ITF2357 increases caspase activity and nucleosome formation.</p>	<p>A4093</p>  <p>Size: 5 mg, 10 mg, 50 mg, 200 mg. Soluble in DMSO > 10 mM.</p>	<p>MC1568</p>	<p>A4094</p>
<p>M344</p> <p>M344 is a potent inhibitor of HDAC with IC50 of 100 nM and able to induce cell differentiation.</p>  <p>SMN protein levels after 60h of differentiation</p> <p>M344 increases SMN protein level.</p>	<p>A4105</p>  <p>Size: 5 mg, 50 mg. Soluble in DMSO > 10 mM.</p>	<p>Scriptaid</p> <p>Scriptaid is an inhibitor of HDAC.</p>  <p>Cancer line survival curve with the treatment of Scriptaid.</p>  <p>Size: 1 mg, 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>	<p>A4106</p>

HDAC1 Inhibitors

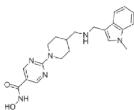
Quisinostat (JNJ-26481585)

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



JNJ-26481585 induces histone acetylation and inhibits cancer cell proliferation.

A4090

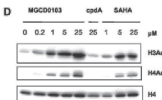


Size: 5 mg, 10 mg, 50 mg, 200 mg.

Soluble in DMSO > 10 mM.

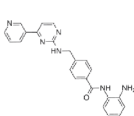
Mocetinostat (MGCD0103, MG1013)

Mocetinostat (MGCD0103) is a potent inhibitor of HDAC with most potency for HDAC1 with IC50 of 0.15 μ M, 2- to 10-fold selectivity against HDAC2, 3 and 11.



Mocetinostat induces histone acetylation in cancer cell lines.

A4089

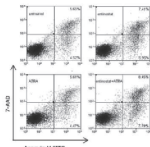


Size: 5 mg, 10 mg, 25 mg, 50 mg.

Soluble in DMSO > 10 mM.

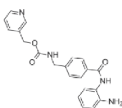
Entinostat (MS-275, SNDX-275)

Entinostat (MS-275) is a strong inhibitor of HDAC1 and 3 with IC50 of 0.51 μ M and 1.7 μ M, respectively.



Entinostat has minimal effect on apoptosis.

A8171

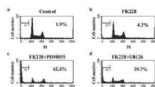


Size: 10 mg, 50 mg, 500 mg.

Soluble in DMSO > 10 mM.

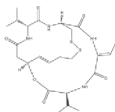
Romidepsin

Romidepsin (FK228, depsipeptide) is a potent and selective inhibitor of HDACs with IC50 of 36 nM, 47 nM, 510 nM and 14,000 nM for HDAC1, 2, 4 and 6, respectively.



Combinational treatment of Romidepsin and MEK inhibitors.

A8173

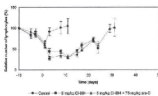


Size: 1 mg, 5 mg.

Soluble in DMSO > 10 mM.

CI994 (Tacedinaline)

CI994 (Tacedinaline), an anti-cancer drug, is an inhibitor of HDAC1 with IC50 of 0.57 μ M and causes G1 cell cycle arrest.



Relative lymphocyte cell number after CI994 treatment.

A4102



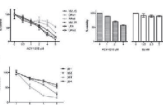
Size: 10 mg, 50 mg.

Soluble in DMSO > 10 mM.

HDAC6 Inhibitors

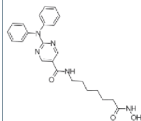
Rocilinosat (ACY-1215)

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



ACY-1215 induces cytotoxicity in cancer lines.

A4083



Size: 5 mg, 10 mg, 50 mg, 200 mg.

Soluble in DMSO > 10 mM.

Product Citation: 1. Scientific reports 5 (2015).

Tubastatin A	A4101
<p>Tubastatin A is a potent and selective inhibitor of HDAC6 with IC50 of 15 nM.</p> <p>Tubastatin A inhibits NO secretion.</p>	<p>Size: 10 mg, 50 mg, 100 mg, 200 mg. Soluble in DMSO > 10 mM.</p> <p>Product Citation: 1. Scientific reports 5 (2015). PMID: 26186158.</p>

HDAC8 Inhibitor	A4091
<p>PCI-34051 is a potent and specific inhibitor of HDAC8 with IC50 of 10 nM.</p> <p>Size: 10 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>Size: 1 mg, 5 mg, 25 mg.</p> <p>Soluble in DMSO > 10 mM</p>

HDAC10 Inhibitor	A4097
<p>CUDC-907 is a dual inhibitor of PI3K and HDAC with IC50 of 19 nM, 1.7 nM, 5 nM, 1.8 nM and 2.8 nM for PI3Kα, HDAC1, 2, 3 and 10, respectively.</p> <p>Size: 5 mg, 10 mg, 50 mg, 200 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>Size: 1 mg, 5 mg, 25 mg.</p> <p>Soluble in DMSO > 10 mM</p>

MyD88 Inhibitor	A3840
<p>ST 2825 is an inhibitor of MyD88 pharmacologic.</p> <p>TREM-1 can be inhibited by the inhibitor of MyD88-ST 2825 potently</p>	<p>Size: 1 mg, 5 mg, 10 mg. Soluble in DMSO.</p> <p>Product Citation: 1. Int Immunopharmacol. 2014.Sep.18.pii: S156 - 5769.</p>

ST 2825	A3840
<p>Size: 5 mg, 10 mg, 50 mg, 200 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>Size: 1 mg, 5 mg, 10 mg. Soluble in DMSO.</p> <p>Product Citation: 1. Int Immunopharmacol. 2014.Sep.18.pii: S156 - 5769.</p>

HIF-1 α Inhibitor	
IOX2(Glycine)	A4189
<p>IOX2 is a potent inhibitor of HIF-1 α PHD2 with IC50 of 21 nM.</p> <p>Size: 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	

CaMK Inhibitor	
KN-62	A8180
<p>KN-62 is a potent and specific inhibitor of CaMKII with Ki of 0.9 μM.</p> <p>Effect of KN-62 on the autophosphorylation of calcium dependent protein kinase II.</p>	<p>Size: 1 mg, 5 mg, 25 mg.</p> <p>Soluble in DMSO > 10 mM</p>

PLC Inhibitor	
SPK-601	A3833
<p>SPK-601(LMV-601) is a potent PC-PLC inhibitor and a useful antimicrobial agent.</p> <p>Size: 10 mg, 50 mg.</p> <p>Soluble in DMSO.</p>	

• STAT	41
• NF- κ B	14
• p38	49
• HSP90	37
• PKC	23
• PKD	8

For more targets information, please see our website at <http://www.apexbt.com/kits/chromatin-epigenetics/hdac.html>, or email us: info@apexbt.com.

IC50s compare:

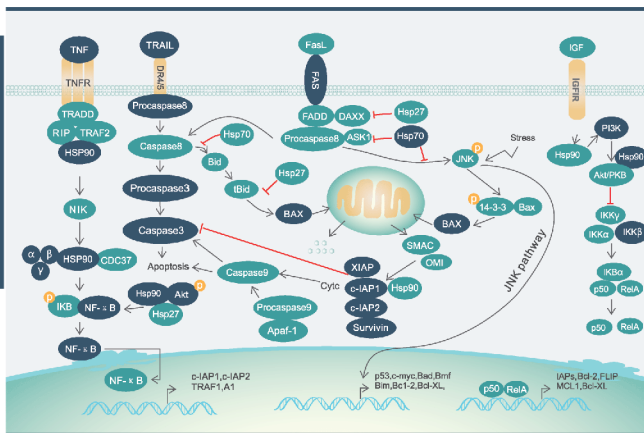
HDAC inhibitors	pan-HDAC	HDAC1	HDAC2	HDAC3	HDAC4	HDAC5	HDAC6	HDAC7
Vorinostat	**** 10 nM(IC50)	*	*	*	*	*	*	*
AR-42	*** 30 nM(IC50)	*	*	*	*	*	*	*
Trichostatin A	**** 1.8 nM(IC50)							
Givinostat	**** 7.5-16 nM(IC50)							
M344	** 100 nM(IC50)							
Panobinostat	*	*	*	*	*	*	*	*
Pracinostat		*** 49 nM(IC50)		*** 43 nM(IC50)	*** 56 nM(IC50)	*** 47 nM(IC50)		
MC1568					*	*	*	*
Scriptaid		** 0.6 μM(IC50)		** 0.6 μM(IC50)				
JNJ-26481585		***** 0.11 nM(IC50)	***** 0.33 nM(IC50)		***** 0.64 nM(IC50)			
Mocetinostat		** 0.15 μM(IC50)	** 0.29 μM(IC50)					
Romidepsin		*** 36 nM(IC50)	*** 47 nM(IC50)					
Entinostat		** 0.51 μM(IC50)		* 1.7 μM(IC50)				
Tacedinaline		** 0.57 μM(IC50)						
Tubastatin A							*** 15 nM(IC50)	
CUDC-907		**** 1.7 nM(IC50)	**** 5 nM(IC50)	**** 1.8 nM(IC50)				
Rocillinostat							**** 5 nM(IC50)	
PCI-34051								

Note: *ⁿ represents potency. The higher the number of *ⁿ, the more potent the inhibitor or activator is.

HDAC8	HDAC9	HDAC10	HDAC11
*	*	*	*
*	*	*	*
*	*	*	*
	*** 70 nM(IC50)	*** 40 nM(IC50)	
	*	*	
* 1 μ M(IC50)			
		**** 2.8 nM(IC50)	
**** 10 nM(IC50)			

HSP Signaling Pathway

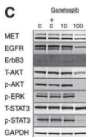
HSP



HSP90 Inhibitors

Ganetespib (STA-9090)

Ganetespib (STA-9090) is an inhibitor of HSP90 with IC50 of 4 nM in OSA 8 cells.



Treatment of Ganetespib downregulates Met, EGFR and Akt.

A4385

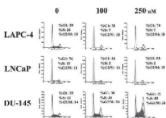


Size: 200 mg.

Soluble in DMSO > 10 mM.

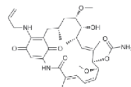
17-AAG (KOS953)

17-AAG (Tanespimycin) is a potent inhibitor of HSP90 with IC50 of 5 nM.



17-AAG treatment in cancer line causes cell cycle arrest.

A4054



Size: 10 mg, 50 mg, 100 mg, 200 mg.

Soluble in DMSO > 10 mM.

Product Citation:
1. Cancer chemotherapy and pharmacology. (2014):1 - 10.

AUY922 (NVP-AUY922)	A4057
<p>AUY922 (NVP-AUY922) is a highly potent inhibitor of HSP90 for HSP90α and β with IC50 of 13 nM and 21 nM, respectively.</p> <p>AUY922 induces apoptosis in cancer lines.</p>	<p>Size: 10 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

KW-2478	A4062
<p>KW-2478 is a novel, non-ansamycin and potent inhibitor of HSP90 with IC50 of 3.8 nM.</p> <p>Size: 5 mg, 10 mg, 50 mg, 100 mg. Soluble in DMSO > 10 mM.</p>	

BIIB021	A4058
<p>BIIB021 is a selective and competitive inhibitor of HSP90 with Ki of 1.7 nM.</p> <p>Size: 5 mg, 10 mg, 50 mg, 100 mg. Soluble in DMSO > 10 mM.</p>	

HSP70 Inhibitor

VER 155008	A4387
<p>VER 155008 is a novel adenosine-derived inhibitor of HSP70 with IC50 of 0.5 μM.</p> <p>Effect of specific pharmacological inhibitors on the recovery of vibration sensitivity in <i>Nematostella vectensis</i></p>	<p>Size: 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p>

IKK β Inhibitors

Bay 65-1942 HCl salt	A3230
<p>Bay 65-1942 is an IKKβ inhibitor.</p> <p>Size: 5 mg, 10 mg. Soluble in DMSO.</p>	

Bay 65-1942 R form	A3231
<p>Bay 65-1942 R form is an ATP-competitive and selective inhibitor of IKKβ kinase with IC50 of 2 nM.</p> <p>Treatment of Bay 65-1942 completely abrogates the phosphorylation of p65 and IκBα in cells.</p>	<p>Size: 5 mg, 10 mg. Soluble in DMSO.</p>

Survivin Inhibitors

YM155	A4221
<p>YM155 (Sepantronium Bromide) is a potent inhibitor of Survivin promoter activity with IC50 of 0.54 nM.</p> <p>YM155 downregulates Mcl-1.</p>	<p>Size: 5 mg, 10 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p> <p>Product Citation: 1. Eur Rev Med Pharmacol Sci 19.11 (2015): 2062 - 2069.</p>

YM-155 hydrochloride	A3947
<p>YM-155 hydrochloride is a potent and small-molecule inhibitor of Survivin with IC50 of 0.54 nM.</p> <p>Cell proliferation (% control)</p> <p>YM-155 (nmoles/L)</p> <p>YM155 inhibits cell proliferation.</p>	<p>Chemical structure of A3947: <chem>COCN1C(=O)c2cc(O)c3c2c1c4cnc4</chem></p> <p>Size: 25 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

Necrostatin-1	A4213
<p>Necrostatin-1 is a specific inhibitor of RIP1 and inhibits TNF-α-induced necroptosis with EC50 of 490 nM.</p> <p>Cell Viability</p> <p>(RIP1 Inhibitor-1)</p> <p>The addition of Necrostatin-1 at a certain dose can partly improve the cell viability of MCF-7 cells in the presence of drug treatment.</p>	<p>Chemical structure of A4213: <chem>CN1C(=O)Nc2c1c3ccccc3n2</chem></p> <p>Size: 10 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

TNF Inhibitors

Lenalidomide (CC-5013)	A4211
<p>Lenalidomide (CC-5013) is an inhibitor of TNF-α secretion with IC50 of 13 nM.</p> <p>% Proliferation relative to control</p> <p>Lenalidomide (μM)</p> <p>Decrease of CRBN in the presence of Lenalidomide.</p>	<p>Chemical structure of A4211: <chem>Cc1c[nH]c2c1c(=O)n2C3CC(=O)N3</chem></p> <p>Size: 50 mg, 100 mg, 250 mg, 500 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

- FAS13
- Akt59
- Caspase11
- Bax10
- XIAP14
- c-IAP13
- PI3K57
- NF- κ B14

For more targets information, please see our website at "http://www.apexbt.com/research-area/metabolism/hsp.html", or email us: info@apexbt.com.

IC50s and EC50 compare:

Inhibitors	HSP90	HSP70	HSP90
KW-2478	**** 3.8 nM(IC50)		
BIIB021	***** 1.7 nM(KI) 38 nM(EC50)		
Ganetespib	**** 4 nM(IC50)		
17-AAG	**** 5 nM(IC50)		
AUY922			*** 13 nM(IC50)
VER 155008		** 0.5 μ M (IC50)	

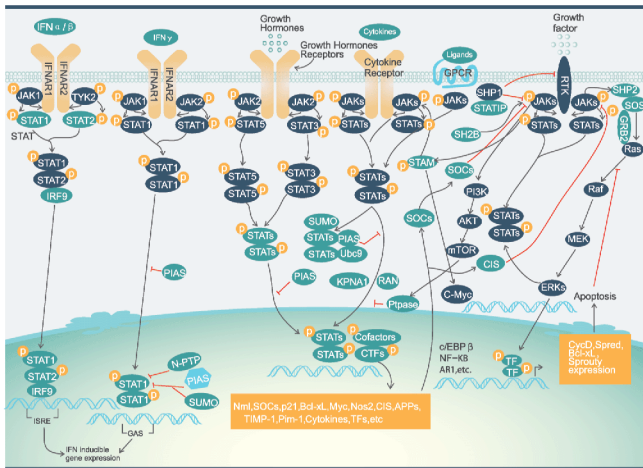
Note: *ⁿ represents potency. The higher the number of *ⁿ is, the more potent the inhibitor or activator is.

Pomalidomide (CC-4047)	A4212
<p>Lenalidomide (CC-5013) is an inhibitor of TNF-α secretion with IC50 of 13 nM.</p> <p>U266 CRBN₂₅</p> <p>DMSO Len Pom DMSO Len Pom</p> <p>CRBN</p> <p>p21</p> <p>IRF4</p> <p>β-Actin</p> <p>Levels of CRBN, p21 and IRF4 in the presence of Lenalidomide and Pomalidomide.</p>	<p>Chemical structure of A4212: <chem>CC(=O)N[C@@H](C)C1=C(C)C(=O)N1</chem></p> <p>Size: 5 mg, 10 mg, 50 mg, 200 mg.</p> <p>Soluble in DMSO > 10 mM.</p>



AK/STAT Signaling Pathway

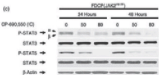
JAK/STAT



JAK Inhibitors

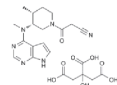
Tofacitinib (CP-690550) Citrate

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



Tofacitinib inhibits STAT3 and STAT5 phosphorylation.

A4135

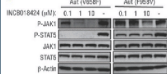


Size: 10 mg, 50 mg.
Soluble in DMSO > 10 mM.

Product Citation:
1. Breast cancer research and treatment (2015): 1 - 14.

Ruxolitinib (INCB018424)

INCB018424 is the first potent and selective inhibitor of JAK1 and 2 to enter the clinic with IC50 of 3.3 nM and 2.8 nM, respectively. It is > 130-fold selectivity for JAK1 and 2 versus 3.



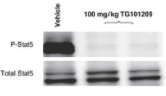
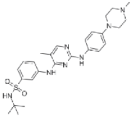
Aut (V58F) and Aut (F958V) were treated with INCB018424 inhibitor.

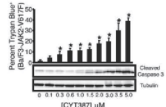
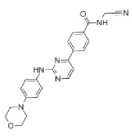
A3012

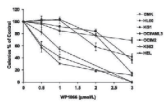
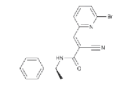


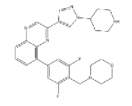
Size: 5 mg, 25 mg.

Soluble in DMSO > 10 mM.

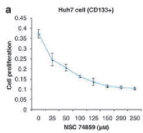
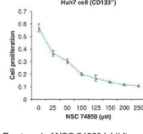
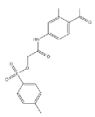
TG101209	A4145
<p>TG101209 is a selective inhibitor of JAK2 with IC50 of 6 nM.</p>  <p>TG101209 inhibits STAT5 phosphorylation.</p>	 <p>Size: 5 mg, 10 mg, 50 mg, 200 mg. Soluble in DMSO > 10 mM.</p>

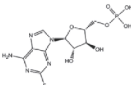
CYT387	A4143
<p>Momelotinib (CYT387) is an ATP-competitive inhibitor of JAK1 and 2 with IC50 of 11 nM and 18 nM, respectively. It has ~10-fold selectivity versus JAK3.</p>  <p>CYT387 induces apoptosis in JAK2 dependent cell.</p>	 <p>Size: 10 mg, 50 mg, 200 mg. Soluble in DMSO > 10 mM.</p>

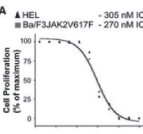
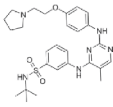
WP1066	A4140
<p>WP1066 is a novel inhibitor of JAK2 and STAT3 with IC50 of 2.30 μM and 2.43 μM in HEL cells, respectively.</p>  <p>WP1066 inhibits cell growth.</p>	 <p>Size: 10 mg, 25 mg. Soluble in DMSO > 10 mM.</p>

NVP-BSK805	A3675
<p>NVP-BSK805 is a potent and selective ATP-competitive inhibitor of JAK2 with IC50 of 0.5 nM, > 20-fold selectivity towards JAK1, JAK3 and TYK2.</p> <p>Size: 5 mg, 10 mg, 50 mg, 200 mg. Soluble in DMSO.</p>	

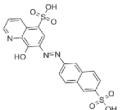
STAT Inhibitors

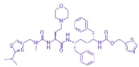
NSC 74859 (S31-201)	A8338
<p>S31-201 is a potent inhibitor of STAT3 DNA-binding activity with IC50 of 86 μM.</p>   <p>Treatment of NSC 74859 inhibits cell growth.</p>	 <p>Size: 10 mg, 50 mg, 200 mg. Soluble in DMSO > 10 mM.</p>

Fludarabine Phosphate (Fludara)	A8317
<p>Fludarabine is an inhibitor of STAT1 activation and DNA synthesis.</p> <p>Size: 5 mg, 25 mg. Soluble in DMSO > 10 mM.</p>	

TG101348 (SAR302503)	A4136
<p>TG-101348 (SAR302503) is a selective inhibitor of JAK2 with IC50 of 3 nM which is 35- and 334-fold more selective for JAK2 versus JAK1 and 3.</p>  <p>TG101348 inhibits cell growth.</p>	 <p>Size: 5 mg, 10 mg, 25 mg, 50 mg. Soluble in DMSO > 10 mM.</p>


SHP Inhibitor

NSC 87877	A4544
NSC-87877 is a potent inhibitor of SHP2 with IC50 of 0.318 ± 0.049 µM.	
Size: 50 mg.	
Soluble in DMSO > 10 mM.	

Cobicistat (GS-9350)	A4313
Cobicistat is a selective inhibitor of cytochrome P450 (CYP) 3A enzymes with IC50 ranging from 0.03 µM to 0.285 µM.	
Size: 5 mg, 10 mg, 200 mg.	
Soluble in DMSO > 10 mM.	


- PI3K57
- Akt59
- mTOR47
- Ras27
- Raf63
- MEK1/243
- ERKs27

RTK Inhibitor

Sunitinib	B1045
Sunitinib is an oral, multi-targeted and small-molecule inhibitor of RTK.	
Size: 300 mg, 500 mg, 1 g, 2 g.	
Soluble in DMSO.	

For more targets information, please see our website at "<http://www.apexbt.com/research-area/epigenetics/jak.html>", or email us: info@apexbt.com.

c-Myc Inhibitor

10058-F4	A1169
10058-F4 is a small-molecule and cell-permeable inhibitor of c-Myc-Max dimerization.	
Size: 10 mg, 50 mg.	
Soluble in DMSO > 10 mM.	

IC50s compare:

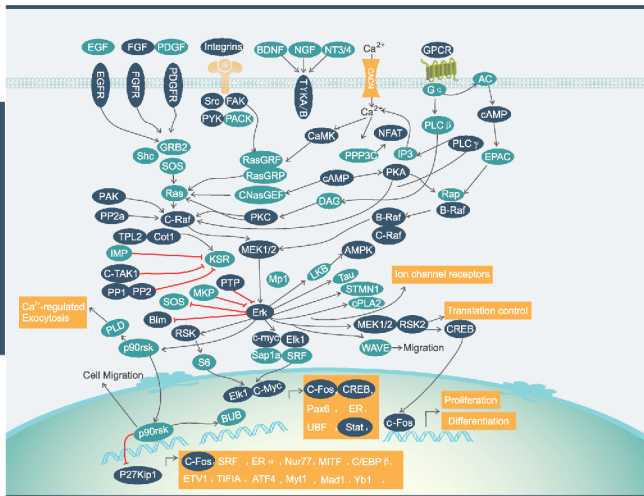
Inhibitors	JAK1	JAK2	Jak2-V617F	JAK3
Tofacitinib	** 112 nM(IC50)	*** 20 nM(IC50)		***** 1 nM(IC50)
Ruxolitinib	***** 3.3 nM(IC50)	***** 2.8 nM(IC50)		
TG101209		***** 6 nM(IC50)		** 169 nM(IC50)
CYT387	*** 11 nM(IC50)	*** 18 nM(IC50)		** 155 nM(IC50)
WP1066		* 2.3 µM(IC50)		
NVP-BSK805	*** 31.63 nM(IC50)	***** 0.5 nM(IC50)	*	*** 18.88 nM(IC50)
TG101348		***** 3 nM(IC50)		

Note: *ⁿ represents potency. The higher the number of *ⁿ is, the more potent the inhibitor or activator is.

M

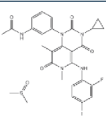
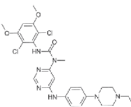
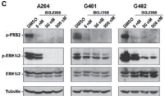
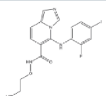
EK1/2 Signaling Pathway

MEK1/2

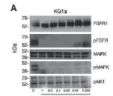
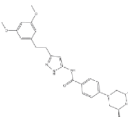
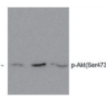



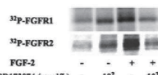
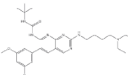
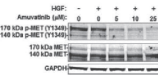
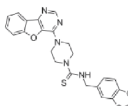
MEK1/2 Inhibitors

Trametinib(GSK1120212)	A3018	AZD6244 (Selumetinib)	A8207
<p>Trametinib (GSK1120212) is a highly specific and potent inhibitor of MEK1 and MEK2 with IC50 of 0.92 nM and 1.8 nM, respectively.</p> <p>GSK1120212 causes sustained inhibition of ERK1/2 phosphorylation, and differential effects on MEK phosphorylation.</p>	<p>Size: 50 mg, 200 mg, 500 mg. Soluble in DMSO > 10 mM.</p>	<p>Selumetinib (AZD6244) is a potent and highly selective inhibitor of MEK1 with IC50 of 14 nM.</p> <p>Treatment of AZD6244 affects pERK and MCT-1 in cell culture.</p>	<p>Size: 100 mg, 500 mg. Soluble in DMSO > 10 mM.</p>

<p>Trametinib DMSO solvate</p> <p>Trametinib DMSO solvate is a novel and potent allosteric inhibitor of MEK kinase.</p> <p>Size: 10 mg, 50 mg, 100 mg, 1 g.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>A3887</p> 	<p>BGJ398</p> <p>BGJ398 (NVP-BGJ398) is a potent and selective inhibitor of FGFR for FGFR1, FGFR2 and FGFR3 with IC50 of 0.9 nM, 1.4 nM and 1 nM, respectively. It is > 40-fold selective for FGFR versus FGFR4 and VEGFR2, and has little activity for Abl, Fyn, Kit, Lck and Lyn.</p> 	<p>A3014</p>  <p>Size: 5 mg, 10 mg, 200 mg.</p> <p>Limited solubility.</p>
<p>GDC-0623</p> <p>GDC-0623 is a potent and ATP-uncompetitive inhibitor of MEK1 with KI of 0.13 nM.</p> <p>Size: 5 mg, 25 mg, 100 mg.</p> <p>Soluble in DMSO.</p>	<p>B1135</p> 		

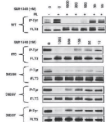
FGFR Inhibitors

<p>AZD4547</p> <p>AZD4547 is a novel and selective inhibitor of FGFR for FGFR1, 2 and 3 with IC50 of 0.2 nM, 2.5 nM and 1.8 nM, respectively. It has weaker activity against FGFR4, VEGFR2, and little activity observed against IGFR, CDK2, and p38.</p>  <p>AZD4547 inhibits FGFR pathway.</p>	<p>A8350</p>  <p>Size: 10 mg, 50 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>		
		<p>Tyrphostin AG 1296</p> <p>Tyrphostin AG 1296 is a selective inhibitor of PDGFR with IC50 of 0.3 μM - 0.5 μM.</p>  <p>Tyrphostin AG 1296 can inhibit the PDGF-βB induced phosphorylation of Akt.</p>	<p>A2477</p>  <p>Size: 25 mg, 100 mg.</p> <p>Limited solubility.</p>

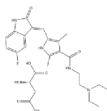
<p>PD 173074</p> <p>PD173074 is a potent inhibitor of FGFR1 with IC50 of ~25 nM and also inhibits VEGFR2 with IC50 of 100 - 200 nM, ~1000-fold selective for FGFR1 than PDGFR and c-Src.</p>  <p>FGFRs is inhibited by PD173074 treatment.</p>	<p>A8253</p>  <p>Size: 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>		
		<p>Amuvatinib (MP-470, HPK 56)</p> <p>Amuvatinib (MP-470) is a potent and multi-targeted inhibitor of c-Kit, PDGFRα and FLT3 with IC50 of 10 nM, 40 nM and 81 nM, respectively.</p>  <p>Amuvatinib inhibits MET receptor tyrosine kinase.</p>	<p>A4237</p>  <p>Size: 2 mg, 5 mg, 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

Sunitinib malate**A8255**

Sunitinib Malate is a multi-targeted inhibitor of RTK for VEGFR2 (Flk-1) and PDGFR β with IC50 of 80 nM and 2 nM, respectively.



Sunitinib inhibits FLT3 phosphorylation.



Size: 10 mg, 50 mg.

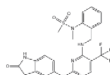
Soluble in DMSO > 10 mM.

PYK Inhibitor**PF-431396****A8692**

PF-431396 is a potent and highly selective pyrimidine-based inhibitor of both Pyk2 and FAK.

Size: 10 mg, 50 mg, 200 mg.

Soluble in DMSO > 10 mM.

**TrKA/B Inhibitor****GW441756****B2297**

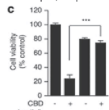
GW441756 is a potent, selective inhibitor of TrkA with IC50 of 2 nM.

Size: 10 mg, 50 mg.

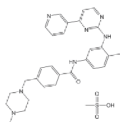
Soluble in DMSO > 10 mM.

**Imatinib Mesylate (STI571)****A1805**

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 μ M, 0.1 μ M and 0.1 μ M, respectively.



Treatment of Imatinib protects against CBD-mediated HSC death activation.

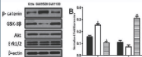


Size: 100 mg.

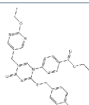
Soluble in DMSO > 10 mM.

GPCR Antagonist and Inhibitor**GW-1100****A3452**

GW1100 is a selective GPR40 antagonist.



GSK3 β expression decreases in the presence of GW9508 and increases upon addition of GW1100.



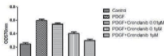
Size: 5 mg, 10 mg, 25 mg, 50 mg.

Soluble in DMSO > 10 mM.

Product Citations:
1. Stem cells and development ja (2014).
2. Biochimie (2015).

Crenolanib (CP-868596)**A8307**

Crenolanib (CP-868596) is a potent and selective inhibitor of PDGFR α and PDGFR β with Kd of 2.1 nM and 3.2 nM, respectively.



Treatment of Crenolanib in RASMCs inhibits proliferation.



Size: 5 mg, 25 mg.

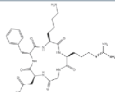
Soluble in DMSO > 10 mM.

Integrins Inhibitor**Cyclo (-RGDfK)****A8164**

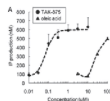
Cyclo(-RGDfK) is a potent and selective inhibitor of the α v β 3 integrin.

Size: 1 mg, 5 mg.

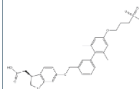
Soluble In Water.

**TAK-875****A8339**

TAK-875 is a selective agonist of GPR40 with EC50 of 14 nM, and 400-fold more potent than oleic acid.



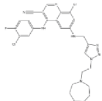
Treatment of TAK-875 induces IP production.



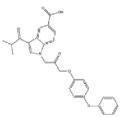
Size: 5 mg, 10 mg, 50 mg.

Soluble in DMSO > 10 mM.

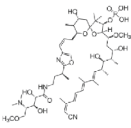
COT Inhibitor

Cot inhibitor-1	A3328
Cot inhibitor-1 is a COT and Tpl2 inhibitor.	
Size: 5 mg, 25 mg, 100 mg.	
Soluble in DMSO.	

CPLA2 Inhibitor

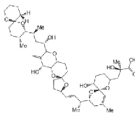
CAY10650	B1168
CAY10650 is a potent inhibitor of PLA2 with IC50 of 12 nM.	
Size: 1 g.	
Soluble in DMSO.	

PP1 Inhibitor

Calyculin A	A4533
Calyculin A is a potent and selective cell-permeable inhibitor of PP1 (IC50 = 0.3 - 0.7 nM) and PP2A (IC50 = 0.5 - 1 nM).	
Size: 100 µg.	
Soluble in DMSO > 10 mM.	

• CREB	60
• EGFR	24
• Src	26
• FAK	26
• CaMK	34
• NFAT	74
• PKA	8
• PKC	23
• B-Raf	63
• c-Raf	63
• PP2	46
• PAK	27
• AMPK	60
• ERK	27
• RSK2	8

PP2 Inhibitor

Okadaic acid	A4540
Okadaic acid is a potent inhibitor of protein phosphatase 1 and PP2A with IC50 of 19 nM and 0.2 nM, respectively.	
Size: 25 µg.	
Soluble in DMSO > 10 mM.	


For more targets information, please see our website at <http://www.apexbt.com/research-area/mapk/mek1-2.html>, or email us: info@apexbt.com.

IC50s compare:

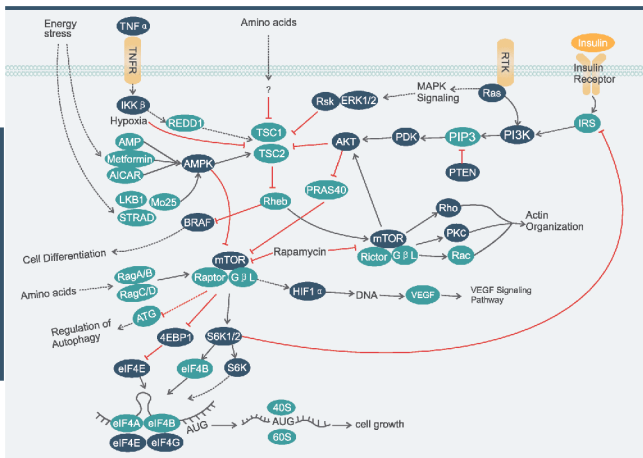
STAT Inhibitors	MEK1	MEK2
Trametinib	***** 0.92 nM(IC50)	***** 1.8 nM(IC50)
Trametinib DMSO solvate	***** 0.7 nM(IC50)	***** 0.9 nM(IC50)
Selumetinib	*** 14 nM(IC50)	
GDC-0623	***** 0.13 nM(KI)	

Note: *ⁿ represents potency. The higher the number of *ⁿ is, the more potent the inhibitor or activator is.

PTP Inhibitor

TCS 401	A4545
TCS 401 is a selective inhibitor of protein-tyrosine phosphatase 1B (PTP1B) (KI values are 0.29, 59, 560, 1100, > 2000, > 2000 and > 2000 µM for PTP1B, CD45 D1D2, PTPβ, PTPε D1, SHP-1, PTPα D1 and LAR D1D2 respectively).	
Size: 10 mg.	
Soluble in DMSO > 10 mM.	

mTOR Signaling Pathway

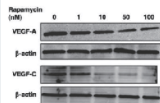


mTOR

mTOR Inhibitors

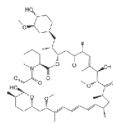
Rapamycin (Sirolimus)

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



VEGF-A and VEGF-C are inhibited by Rapamycin.

A8167

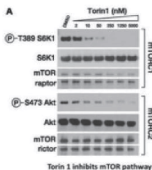


Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.

Product Citation: 1. Journal of proteome research (2015).

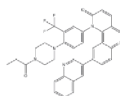
Torin 1

Torin 1 is a potent inhibitor of mTORC1 and mTORC2 with IC50 of 2 nM and 10 nM, respectively.



Torin 1 inhibits mTOR pathway.

A8312



Size: 5 mg, 25 mg.

Limited solubility.

Everolimus (RAD001)

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

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

BEZ235 (NVP-BEZ235)

BEZ235 is a dual and ATP-competitive inhibitor of PI3K and mTOR for p110 α , γ , β and mTOR with IC50 of 4 nM, 5 nM, 7 nM, 5 nM and 6 nM, respectively.

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

Temsirolimus

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

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

- TNF39
- IKK β 38
- RSK8
- ERK1/227
- RTK42
- Ras27
- AMPK60
- Akt59
- PTEN51
- PI3K57
- B-Raf63
- PKC23
- HIF-1 α 34
- Insulin67

PP242

PP242 is a selective inhibitor of mTOR with IC50 of 8 nM.

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

For more targets information, please see our website at <http://www.apexbt.com/research-area/pi3k-akt-signaling/mTOR-signaling.html>, or email us: info@apexbt.com.

IC50s compare:

Inhibitors	Pan-mTOR	mTOR1	mTOR2
Rapamycin	***** 0.1 nM(IC50)		
Everolimus	**** 1.6-2.4 nM(IC50)		
Torin 1		**** 2 nM(IC50)	**** 10 nM(IC50)
PP242	**** 8 nM(IC50)		
Temsirolimus	** 1.76 μ M(IC50)		
AZD8055	***** 0.8 nM(IC50)		
BEZ235	**** 6 nM(IC50)		

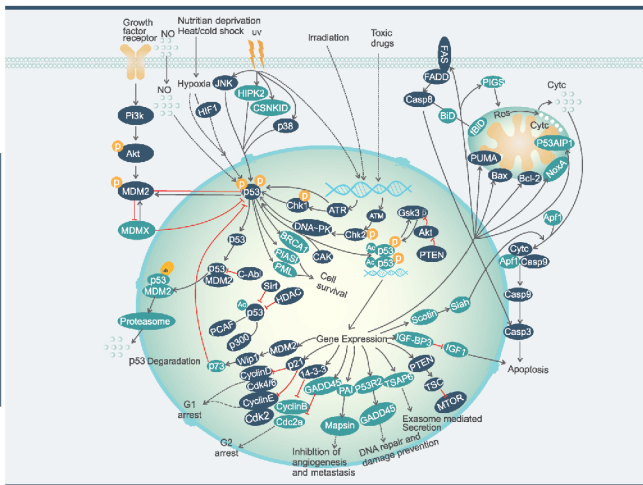
Note: *ⁿ represents potency. The higher the number of *ⁿ is, the more potent the inhibitor or activator is.

AZD8055

AZD8055 is a novel and ATP-competitive inhibitor of mTOR with IC50 of 0.8 nM with excellent selectivity (~1,000-fold) against PI3K isoforms, ATM and DNA-PK.

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

p53 Signaling Pathway



p53 Inhibitor

Tenovin-1

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

Treatment of Tenovin-1 increases p53 and p21 levels.

A4203

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

p38 Inhibitors

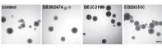
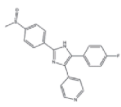
PH-797804

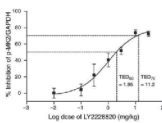
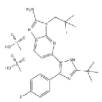
PH-797804 is a novel pyridinone inhibitor of p38 α with IC50 of 26 nM; 4-fold more selective versus p38 β .

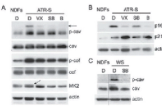
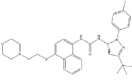
PH-797804 inhibits P38 kinases.

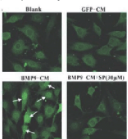

A8308

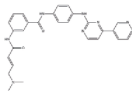
Size: 5 mg, 25 mg.
Soluble in DMSO > 10 mM.
Product Citation:
1. Breast cancer research and treatment (2015): 1 - 14.


SB 203580	A8254
<p>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.</p>  <p>Treatment of increases the number and size of neurospheres culture.</p>	 <p>Size: 1 mg, 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p>

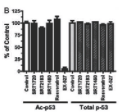
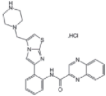
LY2228820	A5566
<p>LY2228820 is a novel and potent inhibitor of p38 MAPK with IC50 of 7 nM.</p>  <p>Treatment of LY2228820 inhibits phosphorylation of MAPK-K2.</p>	 <p>Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

BIRB 796	A5639
<p>BIRB 796 (Doramapimod) is a highly selective p38α inhibitor of MAPK with Kd of 0.1 nM, 330-fold greater selectivity versus JNK2, weak inhibition for c-Raf, Fyn and Lck, insignificant inhibition for ERK-1, SYK, IKK2, ZAP-70, EGFR, HER2, PKA, PKC and PKCα/β.</p>  <p>BIRB 796 affects p38 signaling pathway.</p>	 <p>Size: 5 mg, 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p>

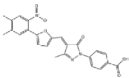
JNK Inhibitors	
SP600125	A4604
<p>SP600125 is a broad-spectrum inhibitor of JNK for JNK1, 2 and 3 with IC50 of 40 nM, 40 nM and 90 nM, respectively.</p>  <p>Treatment of SP600125 inhibits JNK.</p>	 <p>Size: 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p>

JNK-IN-7	A3519
<p>JNK-IN-7 is a selective JNK inhibitor with IC50 of 1.54 nM, 1.99 nM and 0.75 nM for JNK1, 2 and 3, respectively.</p> <p>Size: 5 mg, 10 mg, 50 mg, 100 mg. Soluble in DMSO.</p>	

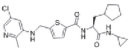
c-Abl Activator	
DPH	A3373
<p>DPH is a c-Abl activator.</p> <p>Size: 10 mg, 50 mg, 200 mg. Soluble in DMSO.</p>	

SIRT Activator	
SRT1720 HCl	A4180
<p>SRT1720 is a selective activator of SIRT1 with EC50 of 0.16 μM, but is > 230-fold less potent for SIRT2 and 3.</p>  <p>Effect of SRT1720, SRT2183, SRT1460 and Resveratrol on SIRT1.</p>	 <p>Size: 5 mg, 10 mg, 50 mg, 200 mg. Soluble in DMSO > 10 mM. Product Citation: 1. Analytical chemistry (2015).</p>

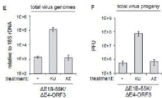

p300 Inhibitor

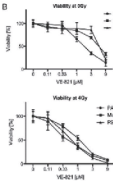
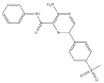
C646	B1577
C646 is an inhibitor of p300 with Ki of 400 nM. Size: 10 mg, 50 mg. Soluble in DMSO > 10 mM.	

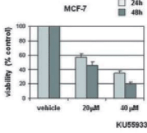

WIP1 Inhibitor

GSK 2830371	B1169
GSK2830371 is an orally active and allosteric inhibitor of WIP1 phosphatase with IC50 of 6 nM. Size: 10 mg, 50 mg, 200 mg. Soluble in DMSO.	

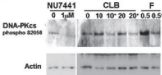

ATR Inhibitors

AZ20	A3210
AZ20 is a potent and selective inhibitor of ATR kinase with IC50 of 5 nM.  MRN senses replicates virus genomes and recruits ATM.	 Size: 5 mg, 10 mg, 50 mg. Soluble in DMSO > 10 mM. Product Citation: 1. Cell 162.5 (2015): 987 - 1002.


VE-821	A2521
VE-821 is a potent, selective and ATP competitive inhibitor of ATR with Ki and IC50 of 13 nM and 26 nM, respectively.  Treatment of VE-821 decreases cell viability.	 Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.

KU 55933	A4605
KU 55933 (ATM Kinase Inhibitor) is a potent and specific inhibitor of ATM with IC50 and Ki of 12.9 nM and 2.2 nM, and is highly selective for ATM as compared to DNA-PK, PI3K, PI4K, ATR and mTOR.  Treatment of KU 55933 causes cell death.	 Size: 10 mg. Soluble in DMSO > 10 mM.

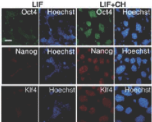
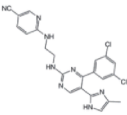
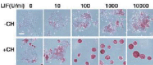
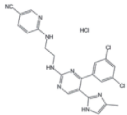
DNA-PK Inhibitor

NU7441 (KU-57788)	A8315
NU7441 (KU-57788) is a highly potent and selective inhibitor of DNA-PK with IC50 of 14 nM and also inhibits PI3K with IC50 of 5 μM.  NU7441 inhibits DNA-PK phosphorylation.	 Size: 5 mg, 25 mg. Soluble in DMSO > 10 mM.

PTEN Inhibitor

VO-Ohipc trihydrate	A3923
VO-Ohipc is a highly selective small-molecule inhibitor of PTEN with IC50 of 35 nM. Size: 10 mg, 25 mg. Soluble in DMSO > 10 mM.	 H ⁺ H ₂ O H ₂ O H ₂ O

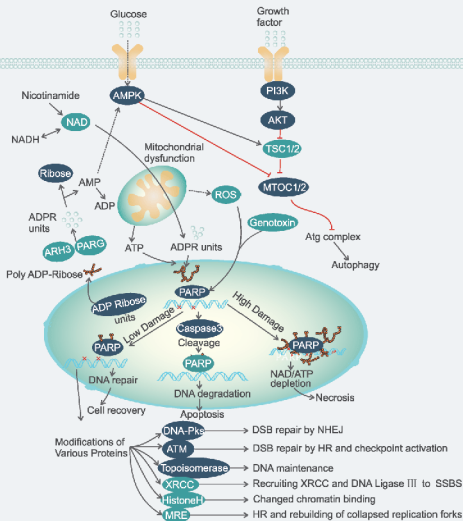
GSK3 β Inhibitors

<p>CHIR-99021 (CT99021)</p> <p>CHIR-99021 (CT99021) is an inhibitor of GSK3α and GSK3β with IC₅₀ of 10 nM and 6.7 nM, respectively. It has > 500-fold selectivity for GSK-3 versus its closest homologs CDC2 and ERK2, as well as other protein kinases.</p>  <p>LIF and CHIR-99021 maintain stem cell property.</p>	<p>A3011</p>  <p>Size: 5 mg, 25 mg, 100 mg.</p> <p>Soluble in DMSO.</p>
<p>CHIR-99021 (CT99021) HCl</p> <p>CHIR-99021 (CT99021) HCl, hydrochloride of CHIR-99021, is an inhibitor of GSK3α and GSK3β with IC₅₀ of 10 nM and 6.7 nM, respectively.</p>  <p>LIF and CHIR-99021 maintain stem cell property.</p>	<p>A8396</p>  <p>Size: 2 mg, 5 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

• Akt	59
• PI3K	57
• MDM2	2
• HDAC	31
• cyclinE+cdk2	18
• CHK1	2
• ATM	2
• mTOR	47
• FAS	13
• Caspase	11
• Bax	10
• Bcl-2	9

For more targets information, please see our website at <http://www.apexbt.com/research-area/apoptosis/p53.html>, or email us: info@apexbt.com.

PARP Signaling Pathway



PARP Inhibitors

ABT-888 (Veliparib)	A3002
<p>Veliparib (ABT-888) is a potent inhibitor of PARP1 and 2 with K_i of 5.2 nM and 2.9 nM, respectively.</p> <p>ABT-888 enhances the antitumor activity of temozolomide.</p>	<p>Size: 5 mg, 10 mg, 50 mg, 200 mg. Soluble in DMSO > 10 mM.</p>

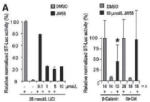
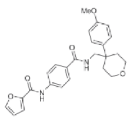
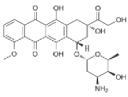
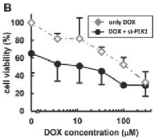
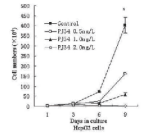
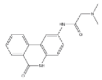
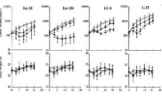
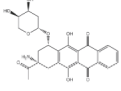
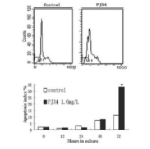
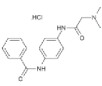
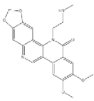
XAV-939	A1877
<p>XAV-939 is an inhibitor of RARα5a and 5b (TNKS1/2) with IC_{50} of 11 nM and 4 nM, respectively.</p> <p>XAV-939 blocks the binding of TNKS and PARP1/2.</p>	<p>Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

Rucaparib (AG-014699, PF-01367338)	A4156
<p>Rucaparib (AG-014699, PF-01367338) is an inhibitor of PARP1 with K_i of 1.4 nM.</p> <p>Treatment of AG-014699 reduces cell survival.</p>	<p>Size: 5 mg, 10 mg, 50 mg, 200 mg. Soluble in DMSO > 10 mM.</p>

Olaparib (AZD2281, Ku-0059436)	A4154
<p>Olaparib (AZD2281, KU0059436) is a potent inhibitor of PARP1 and 2 with IC_{50} of 5 and 1 nM, respectively.</p> <p>Treatment of Olaparib induces ATM and SMC1 phosphorylation.</p>	<p>Size: 10 mg, 100 mg, 500 mg. Soluble in DMSO > 10 mM.</p>

BMN 673	A4153
<p>BMN673 is a potent and selective inhibitor of PARP1 and 2 with K_i of 1.2 and 0.9 nM, respectively.</p> <p>BCR1^{-/-} cells are sensitive to BMN673 treatment.</p>	<p>Size: 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p>

Tankyrase Inhibitors (TNKS) 22	A8600
<p>Tankyrase inhibitors (TNKS) 22 is a potent, selective and orally bioavailable inhibitor of tankyrase with IC_{50} of 0.1 nM.</p> <p>Tankyrase inhibitors 22 performs as good as previously reported XAV939.</p>	<p>Size: 100 mg.</p>

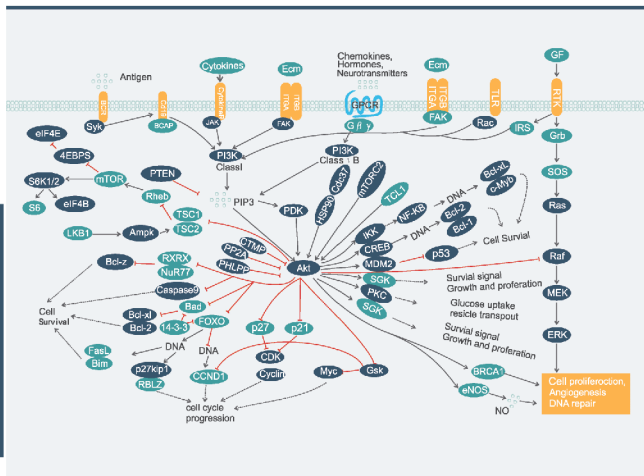
<p>JW 55</p> <p>JW 55 is an inhibitor of RARP5a and 5b. JW55 decreases auto-PARylation of RARP5a and 5b in vitro with IC50 of 1.9 μM and 830 nM, respectively.</p>  <p>JW55 inhibits xanonical Wnt pathway.</p>	<p>A4529</p>  <p>Size: 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>Doxorubicin</p> <p>Doxorubicin (Adriamycin) is an antibiotic agent and inhibitor of DNA topoisomerase II, it is also an inducer of DNA damage and apoptosis.</p>  <p>Size: 10 mg, 25 mg.</p> <p>Soluble in DMSO.</p>	<p>A3966</p>  <p>Cells incubated with DOX-containing medium effects the viability.</p>
<p>PJ34</p> <p>PJ34 is a novel, potent and specific inhibitor of PARP with EC50 of 20 nM.</p>  <p>PJ34 inhibits HepG2 cell growth.</p>	<p>A3729</p>  <p>Size: 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>Amrubicin</p> <p>Amrubicin is an inhibitor of Topoisomerase II Amrubicin.</p>  <p>Effect of Amrubicin and doxorubicin on cancer cell lines.</p>	<p>A8227</p>  <p>Size: 1 mg, 5 mg.</p> <p>Soluble in Chloroform.</p>
<p>PJ34 hydrochloride</p> <p>PJ34 is a novel, potent and specific inhibitor of PARP with EC50 of 20 nM.</p>  <p>PJ34 induces HepG2 cell apoptosis.</p>	<p>A4159</p>  <p>Size: 5 mg, 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<ul style="list-style-type: none"> • AMPK60 • PI3K57 • Akt59 • mTOR1/247 • Caspase11 • DNA-PK51 • ATM2 	
<p>Topoisomerase Inhibitors</p>			
<p>Genz-644282</p> <p>Genz-644282 is a non-camptothecin inhibitor of topoisomerase I with IC50 of 1.2 nM.</p> <p>Size: 5 mg, 10 mg, 25 mg, 50 mg.</p> <p>Soluble in DMSO.</p>	<p>A3434</p> 		

IC50s compare:

Inhibitors	PARP	PARP1	PARP2	TNKS1	TNKS2
Veliparib		**** 5.2 nM(KI)	**** 2.9 nM(KI)		
XAV-939				*** 11 nM(IC50)	**** 4 nM(IC50)
PJ34 hydrochloride	*** 11 nM(IC50)				
Rucaparib		**** 1.4 nM(KI)			
Olaparib		**** 5 nM(IC50)	***** 1 nM(IC50)		
BMN 673		**** 1.2 nM(KI)	***** 0.9 nM(KI)		
TNKS 22					***** 0.1 nM(IC50)
JW 55				* 1.9 μM(IC50)	** 0.83 μM(IC50)
PJ34		*** 20 nM(IC50)			

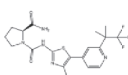
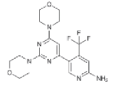
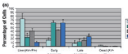
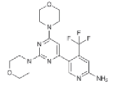
Note: ** represents potency. The higher the number of * is, the more potent the inhibitor or activator is.


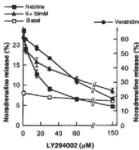

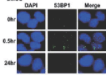
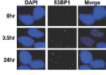
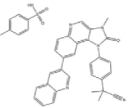

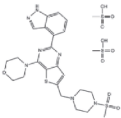
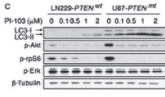

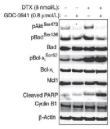
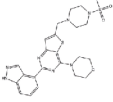
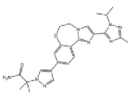
P13K Signaling Pathway



PI3K

PI3K Inhibitors

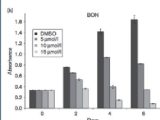
BYL-719	A8346	BKM120	A3015
<p>BYL719 is a potent and selective inhibitor of PI3Kα with IC50 of 5 nM.</p>  <p>Size: 5 mg, 20 mg, 100 mg. Soluble in DMSO > 10 mM.</p>	<p>BKM120 is a selective PI3K inhibitor of p110α, β, δ and γ with IC50 of 52 nM, 166 nM, 116 nM and 262 nM, respectively.</p>  <p>Size: 5 mg, 10 mg, 100 mg. Soluble in DMSO > 10 mM.</p>	 <p>Stage of apoptosis.</p>	 <p>Size: 5 mg, 10 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

<p>VS-5584 (SB2343)</p> <p>VS-5584 (SB2343) is a potent and selective inhibitor of PI3K and mTOR with IC50 of 2.6 - 21 nM and 3.4 nM, respectively.</p> <p>Size: 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>A3927</p> 	<p>LY 294002</p> <p>LY294002 is an inhibitor of PI3K α, δ and β with IC50 of 0.5 μM, 0.57 μM and 0.97 μM, respectively.</p>  <p>Treatment of LY294002 inhibits norepinephrine secretion.</p>	<p>A8250</p>  <p>Size: 5 mg, 25 mg.</p> <p>Soluble in DMSO > 10 mM.</p> <p>Product Citation: 1. Breast cancer research and treatment (2015): 1 - 14. PMID: 25701119.</p>
<p>BEZ235 Tosylate</p> <p>BEZ235 is an imidazoquinoline derivative inhibiting both PI3K and mTOR kinases with low nanomolar IC50s.</p> <p>C U251 DMSO</p>  <p>BEZ235</p>  <p>Treatment of BEZ235 inhibits DSB repair.</p>	<p>A3238</p>  <p>Size: 25 mg, 100 mg, 200 mg, 1 g.</p> <p>Soluble in DMSO.</p> <p>Product Citation: 1. Sci Signal. 2014 Dec 23.</p>	<p>PI-103</p> <p>PI-103 is a multi-targeted inhibitor of PI3K for p110α, β, δ and γ with IC50 of 2 nM, 3 nM, 3 nM and 15 nM, respectively. It is less potent to mTOR and DNA-PK with IC50 of 30 nM and 23 nM, respectively.</p>	<p>A2067</p>  <p>Size: 5 mg, 25 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>
<p>GDC-0941 dimethanesulfonate</p> <p>GDC-0941 dimethanesulfonate is an orally bioavailable and selective inhibitor of class I PI3K with IC50 of 15 nM, 185 nM, 7 nM and 224 nM for PI3Kα, β, δ and γ, respectively.</p> <p>Size: 25 mg, 200 mg, 500 mg.</p> <p>Soluble in DMSO.</p>	<p>A3432</p> 	<p>PI-103</p> <p>PI-103 is a multi-targeted inhibitor of PI3K for p110α, β, δ and γ with IC50 of 2 nM, 3 nM, 3 nM and 15 nM, respectively. It is less potent to mTOR and DNA-PK with IC50 of 30 nM and 23 nM, respectively.</p>  <p>Treatment of PI-103 induces autophagosome formation.</p>	<p>A2067</p>  <p>Size: 5 mg, 25 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>
<p>GDC-0941</p> <p>GDC-0941 is a potent inhibitor of PI3Kα and δ with IC50 of 3 nM, with modest selectivity against p110β (11-fold) and p110γ (25-fold).</p>  <p>Effect of GDC-0941 on Bcl-2 family protein and apoptosis.</p>	<p>A8210</p>  <p>Size: 10 mg, 50 mg, 200 mg.</p> <p>Soluble in DMSO > 10 mM.</p> <p>Product Citation: 1. Cellular and Molecular Life Sciences (2015): 1 - 9.</p>	<p>GDC-0032</p> <p>GDC-0032 is a potent and next-generation inhibitor of β isoform-sparing PI3K with IC50 of 0.29 nM, 0.12 nM and 0.97 nM for PI3Kα, δ and γ, respectively.</p> <p>Size: 5 mg, 10 mg, 25 mg, 50 mg.</p> <p>Soluble in DMSO.</p>	<p>B1047</p> 

Akt Inhibitors

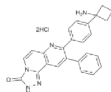
MK-2206 dihydrochloride

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



MK-2206 treatment exerts an anti-proliferative effect in two carcinoma cell lines.

A3010



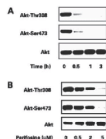
Size: 10 mg, 100 mg, 500 mg.

Soluble in DMSO > 10 mM.

Product Citations:
1. Sci Signal. 2014 Dec 23.
2. Name: Frontiers in Physiology 6.8 (2015).

Perifosine

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



Perifosine inhibits Akt phosphorylation.

A8309

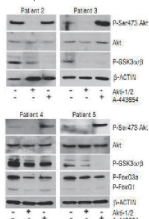


Size: 5 mg, 25 mg.

Limited solubility.

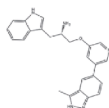
A-443654

A-443654 is a potent and selective inhibitor of Akt1 with Ki of 160 pM.



A-443654 reduces the phosphorylation of GSK3α/β and Fox1/FoxO3a.

A3135



Size: 5 mg.

Soluble in DMSO.

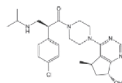
GDC-0068 (RG7440)

GDC-0068 is a highly selective inhibitor of Akt for Akt1, 2 and 3 with IC50 of 5 nM, 18 nM and 8 nM, respectively, and 620-fold selectivity over PKA.

Size: 5 mg, 50 mg, 100 mg, 200 mg.

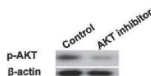
Soluble in DMSO > 10 mM.

A3006



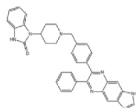
AKT inhibitor VIII

AKT inhibitor VIII is a potent and selective allosteric inhibitor of Akt kinase with IC50 of 58 nM, 210 nM and 219 nM, for Akt1, 2 and 3, respectively.



Pretreatment with AKT inhibitor VIII causes downregulation of p-Akt.

A3149

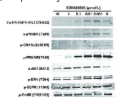


Size: 10 mg, 25 mg.
Soluble in DMSO.

Product Citation:
1. Nature Cell Biology (2015). 2015. May 317(5):627-38.

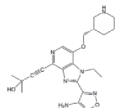
GSK690693

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



GSK690693 inhibits the phosphorylation of FXHR/FXHLR1, p70S6K, GSK3α/β and PRAS40.

A5072



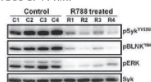
Size: 5 mg, 25 mg, 100 mg.

Soluble in DMSO > 10 mM.

Syk Inhibitors

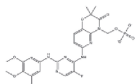
R788

R788 (Fostamatinib) disodium, a prodrug of the active metabolite R406, is an inhibitor of Syk with IC50 of 41 nM.



Treatment of R788 inhibits Syk and its downstream targets.

A8332



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

R406 (free base)	A5880
<p>R406 (free base) is a potent inhibitor of Syk with IC50 of 41 nM.</p> <p>R406 inhibits Sky kinase activity.</p>	<p>Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

R406	A8546
<p>R406 is a potent inhibitor of Syk with IC50 of 41 nM.</p> <p>R406 inhibits Syk Kinase pathway.</p>	<p>Size: 2 mg, 10 mg. Soluble in DMSO > 10 mM.</p>

Rac Inhibitor	
<p>EHop-016</p> <p>EHop-016 is a specific inhibitor of Rac GTPase with IC50 of 1.1 μM for Rac1.</p> <p>Size: 10 mg, 25 mg. Soluble in DMSO > 10 mM.</p>	<p>B2219</p>

AMPK Inhibitor	
<p>Dorsomorphin</p> <p>Dorsomorphin is a cell-permeable, reversible and ATP-competitive inhibitor of AMPK with Ki of 109 nM.</p> <p>Size: 1 g. Soluble in DMSO.</p>	<p>B3252</p>

PP2A Inhibitor	
<p>Fostriecin sodium salt</p> <p>Fostriecin sodium salt is a potent inhibitor of PP2A and PP4 with IC50 of 1.5 nM and 3 nM, respectively.</p> <p>Size: 50 μg. Soluble to 100 mM in sterile water.</p>	<p>A4536</p>

CREB Inhibitor	
<p>SGC-CBP30</p> <p>SGC-CBP30 is a potent inhibitor of CREBBP and EP300 with IC50 of 21 nM and 38 nM, respectively.</p> <p>Size: 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p>	<p>A4491</p>

• JAK	40
• FAK	26
• PTEN	51
• Bcl-2	9
• Caspase	11
• Bcl-xL	10
• CDK	18
• GSK	52
• Akt	59
• PDK	67
• HSP90	37
• mTOR	47
• IKK	38
• NF-κB	14
• MDM2	2
• p53	49
• PKC	23
• RAS	67
• Raf	23
• ERK	27
• MEK	43
• Mcl-1	15

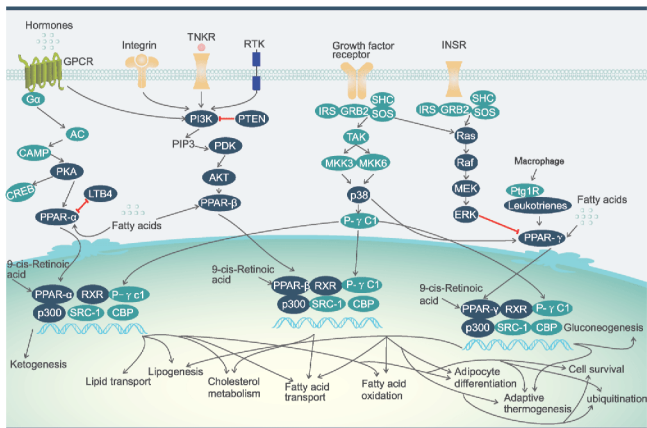
For more targets information, please see our website at "<http://www.apexbt.com/research-area/pi3k-akt-signaling/pi3k-inhibitors.html>", or email us: info@apexbt.com.

IC50s compare:

Inhibitors	Pan-PI3K	PI3K α	PI3K β	PI3K γ	PI3K δ
BYL-719		**** 5 nM(IC50)			
VS-5584		**** 2.6 nM(IC50)	*** 21 nM(IC50)	**** 3 nM(IC50)	**** 2.7 nM(IC50)
GDC-0941		**** 3 nM(IC50)	*** 33 nM(IC50)	*** 75 nM(IC50)	**** 3 nM(IC50)
BEZ235 Tosylate	*				
BKM120		*** (IC50 = 52 nM)	** 166 nM(IC50)	** 262 nM(IC50)	
LY 294002		***** 0.5 nM(IC50)	***** 0.97 nM(IC50)		***** 0.57 nM(IC50)
PI-103		**** 2 nM(IC50)	**** 3 nM(IC50)	*** 15 nM(IC50)	**** 3 nM(IC50)
GDC-0032		***** 0.29 nM(IC50)		***** 0.97 nM(IC50)	***** 0.12 nM(IC50)

Note: ** represents potency. The higher the number of ** is, the more potent the inhibitor or activator is.

PPAR Signaling Pathway



PPAR α Inhibitor

WY-14643 (Pirixic Acid)	A4305
WY-14643 is a highly potent agonist of PPAR α with IC50 of 10.11 μ M. Size: 50 mg, 250 mg. Soluble in DMSO > 10 mM.	

PPAR β Inhibitor

GW501516	A4309
GW501516 is a selective and potent agonist of PPAR β with EC50 of 1.1 nM. Size: 5 mg, 250 mg, 100 mg. Soluble in DMSO.	

PPAR γ Antagonists

GW9662	A4300										
GW9662 is a selective, irreversible and effective antagonist of PPAR γ with IC50 of 3.3 μ M.											
<table border="1"> <caption>Collagen Type I Concentration (ng/mL)</caption> <thead> <tr> <th>Group</th> <th>Collagen Type I Concentration (ng/mL)</th> </tr> </thead> <tbody> <tr> <td>Control</td> <td>~15</td> </tr> <tr> <td>Model</td> <td>~40</td> </tr> <tr> <td>A39-100</td> <td>~25</td> </tr> <tr> <td>A39-100+GW9662(100 μM)</td> <td>~40</td> </tr> </tbody> </table>	Group	Collagen Type I Concentration (ng/mL)	Control	~15	Model	~40	A39-100	~25	A39-100+GW9662(100 μ M)	~40	Size: 10 mg, 25 mg, 50 mg. Soluble in DMSO > 10 mM.
Group	Collagen Type I Concentration (ng/mL)										
Control	~15										
Model	~40										
A39-100	~25										
A39-100+GW9662(100 μ M)	~40										
GW9662 can significantly increase the content of Collagen type I.											

T0070907

T0070907 is a potent and selective antagonist of the human PPAR δ with IC₅₀ of 1 nM.
Size:
5 mg, 10 mg, 25 mg, 50 mg.

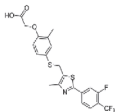
Soluble in DMSO > 10 mM.

A4301**PPAR δ Agonist****GW0742**

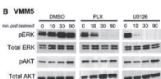
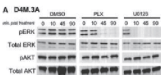
GW0742 is a selective agonist of PPAR δ with EC₅₀ of 1.1 nM.

Size: 10 mg, 50 mg.

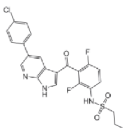
Soluble in DMSO > 10 mM.

A4307**Raf Inhibitors****Vemurafenib (PLX4032, RG7204)**

Vemurafenib is a novel and potent inhibitor of B-Raf V600E with IC₅₀ of 31 nM.



PLX4032 decreases pERK levels and inhibits growth of D4M cells.

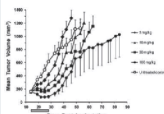
A3004

Size: 50 mg, 70 mg, 500 mg.

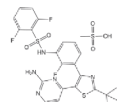
Soluble in DMSO > 10 mM.

Dabrafenib Mesylate (GSK-2118436)

GSK2118436 is a selective B-Raf V600E inhibitor.



Treatment of Dabrafenib in Colo 205 tumor xenografts.

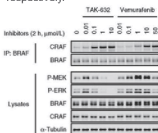
A3347

Size:
10 mg, 50 mg, 100 mg.

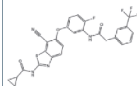
Soluble in DMSO.

TAK-632

TAK-632 is a potent inhibitor of Raf with IC₅₀ of 8.3 nM and 1.4 nM for B-Raf (wt) and C-Raf, respectively.



Effect of TAK-632 on Raf.

A8226

Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg.

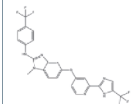
Soluble in DMSO > 10 mM.

RAF265

RAF265 (CHIR-265) is a potent and selective inhibitor of C-Raf, B-Raf and B-Raf V600E with IC₅₀ of 3 - 60 nM.



RAF265 treatment inhibits MEK phosphorylation.

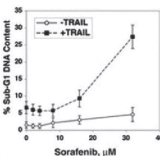
A8313

Size: 5 mg, 25 mg.

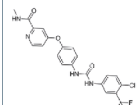
Soluble in DMSO > 10 mM.

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.



Sorafenib treatment in the presence of TRAIL.

A3009

Size:
5 mg, 50 mg, 500 mg.

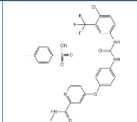
Soluble in DMSO > 10 mM.

Sorafenib Tosylate

Sorafenib Tosylate (Bay 43-9006) is a multikinase inhibitor of Raf-1, B-Raf and VEGFR-2 with IC₅₀ of 6 nM, 22 nM and 90 nM, respectively.

Size: 1 g, 10 g.

Soluble in DMSO > 10 mM.

A8245

PLX-4720	A3016
<p>PLX-4720 is a potent and selective inhibitor of B-Raf V600E with IC50 of 13 nM, equally potent to c-Raf-1 (Y340D and Y341D mutations), 10-fold selectivity for B-Raf V600E than wild-type B-Raf.</p> <p>b</p> <p>Relative abundance of XBP1s mRNA</p> <p>□ DMSO ■ PLX4720</p> <p>Mel-PMu MM200 Mel-PM</p> <p>PLX4720 (3 μM) alters the expression of XBP1s mRNA.</p>	<p>Size: 10 mg, 25 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

- PI3K.....47
- PTEN51
- PDK67
- Akt59
- PKA8
- p3849
- Ras27
- MEK43
- ERK27

For more targets information, please see our website at <http://www.apexbt.com/research-area/metabolism/ppar.html>, or email us: info@apexbt.com.

IC50s and EC50s compare:

Inhibitors	PPARα	PPARβ	PPARγ	PPARδ
WY-14643	*			
	10.11 μM(IC50)			
GW501516		****		
		1.1 nM(EC50)		
GW9662	***		****	*
	32 nM(IC50)		3.3 nM(IC50)	2000 nM(IC50)
T0070907			*****	
			1 nM(IC50)	
GW0742				****
				1.1 nM(EC50)

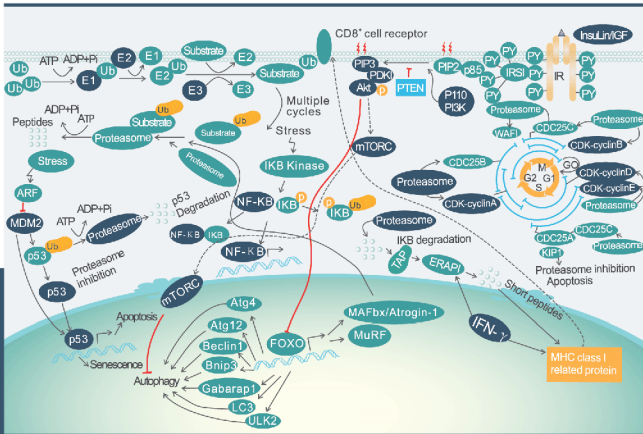
Note: ** represents potency. The higher the number of ** is, the more potent the inhibitor or activator is.

Leukotrienes Agonist	
<p>Zafirlukast</p> <p>Zafirlukast is a leukotriene receptor antagonist (LTRA).</p> <p>Size: 50 mg, 5 g.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>B2068</p>

RXR Agonist	
<p>RXR Agonist</p> <p>Bexarotene is a selective RXR agonist used as an antineoplastic.</p> <p>Size: 10 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>A8380</p>

LTB4 Inhibitor	
<p>GW0742</p> <p>SC-57461A is a selective inhibitor of human recombinant LTB4 with IC50 of 49 nM.</p> <p>Size: 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>A4307</p>

Proteasome Signaling Pathway

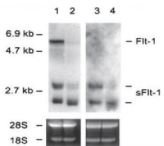
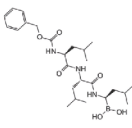


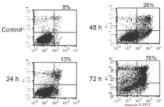
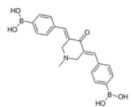
Proteasome

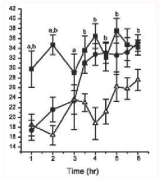
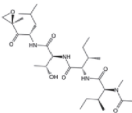
Proteasome Inhibitors

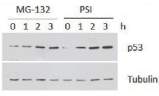
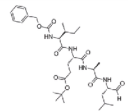
Bortezomib (PS-341)	A2614
<p>Bortezomib (PS-341) is a potent inhibitor of 20S proteasome with Ki of 0.6 nM.</p> <p>Treatment with Bortezomib and L reduce HK2 degradation compared with L alone.</p>	<p>Size: 10 mg, 25 mg, 100 mg, 500 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

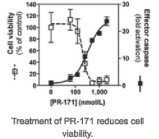
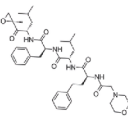
MG-132	A2585
<p>MG-132 is an inhibitor of proteasome with IC50 of 100 nM, and also inhibits Calpain with IC50 of 1.2 μM.</p> <p>MG-132 inhibits the p53 degradation effectively.</p>	<p>Size: 10 mg, 25 mg, 100 mg, 500 mg.</p> <p>Soluble in DMSO > 10 mM.</p> <p>Product Citations: 1. Oncotarget, 2014, 5(11): 3728. 2. Molecular plant pathology (2015).</p>

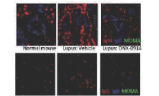
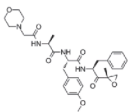
MG-262	A8179
<p>MG-262 is a reversible and cell-permeable proteasome inhibitor with IC50 of 122 nM.</p>  <p>Treatment of MG-262 (lane 2 & 4) vs. Control (lane 1 & 3).</p>	 <p>Size: 1 mg, 5 mg. Soluble in DMSO.</p>

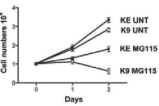
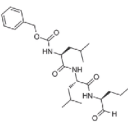
AM 114	A8163
<p>AM 114 is a potent small-molecule inhibitor of the proteasome with IC50 of approximately 1 μM.</p>  <p>Treatment of AM 114 induces apoptosis.</p>	 <p>Size: 10 mg, 50 mg. Limited solubility. Product Citation: 1. Journal of Genetics and Genomics (2015).</p>

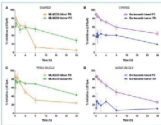
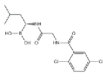
Epoxomicin	A2606
<p>Epoxomicin is a selective and irreversible inhibitor of 20S proteasome with IC50 of 4 nM.</p>  <p>Effect of specific pharmacological inhibitors on the recovery of vibration sensitivity in <i>Nematostella vectensis</i>.</p>	 <p>Size: 1 mg, 5 mg, 20 mg. Soluble in DMSO. Product Citations: 1. International journal of oncology 46.1 (2015): 395 - 406. 2. Current Protocols in Immunology (2015): 9 - 10.</p>

PSI	A1900
<p>PSI is an inhibitor of proteasome.</p>  <p>Cells were treated with MG-132 or PSI.</p>	 <p>Size: 5 mg. Soluble in DMSO > 10 mM.</p>

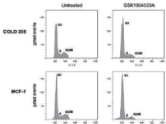
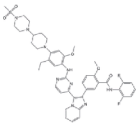
Carfilzomib (PR-171)	A1933
<p>Carfilzomib (PR-171) is an irreversible inhibitor of proteasome with IC50 of < 5 nM.</p>  <p>Treatment of PR-171 reduces cell viability.</p>	 <p>Size: 5 mg, 10 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

ONX-0914 (PR-957)	A4011
<p>ONX-0914 (PR-957) is a potent and selective inhibitor of immunoproteasome with minimal cross-reactivity for the constitutive proteasome.</p>  <p>NZB/NZW mice were treated with ONX 0914.</p>	 <p>Size: 10 mg, 50 mg, 100 mg, 200 mg. Soluble in DMSO > 10 mM.</p>

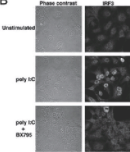
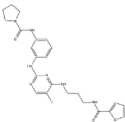
MG-115	A2612
<p>MG-115 (Z-Leu-Leu-Nva-H) is a potent and reversible peptide aldehyde inhibitor of proteasome chymotrypsin-like and caspase-like activities.</p>  <p>Treatment of MG-115 affects cell growth.</p>	 <p>Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO.</p>

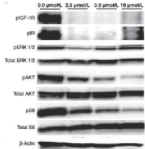
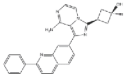
MLN2238	A4008
<p>MLN2238 is a potent and reversible inhibitor that inhibits specific $\beta 5$ site of the 20S proteasome with IC50 of 3.4 nM and Ki of 0.93 nM, respectively.</p>  <p>Blood and tumor proteasome inhibition are induced by MLN2238.</p>	 <p>Size: 5 mg, 10 mg, 50 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

Insulin/IGF Inhibitors

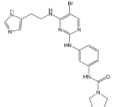
GSK1904529A	A1302
<p>GSK1904529A is a selective inhibitor of IGF-1R with IC50 of 27 nM.</p>  <p>Treatment of GSK1904529A induces G1 phase arrest.</p>	 <p>Size: 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p>

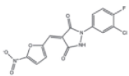
PDK1 Inhibitors

BX795	A8222
<p>BX795 is a potent and specific inhibitor of PDK1 with IC50 of 6 nM.</p>  <p>BX795 blocks the nuclear translocation of IRF3.</p>	 <p>Size: 5 mg, 10 mg, 50 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

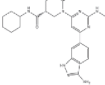
Linsitinib	A8334
<p>OSI-906 (Linsitinib) is a selective inhibitor of IGF-1R with IC50 of 35 nM; modestly potent to Insulin receptor with IC50 of 75 nM.</p>  <p>Treatment of Linsitinib inhibits IGF-1R pathway.</p>	 <p>Size: 5 mg, 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p>


E1 Inhibitor

BX-912	A2806
<p>BX-912 is a potent and ATP-competitive inhibitor of PDK1 with IC50 of 26 nM.</p> <p>Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>	

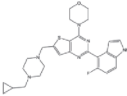
PYZD-4409	B1244
<p>PYZD-4409 is a small-molecule inhibitor of E1 with IC50 of 20 μM.</p> <p>Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg. Soluble in DMSO > 10 mM.</p>	

E2 Inhibitor

GSK2334470	B2174
<p>GSK2334470 is a novel inhibitor of PDK1 with IC50 of 10 nM.</p> <p>Size: 10 mg, 25 mg, 50 mg. Soluble in DMSO > 10 mM.</p>	

NSC697923	A8813
<p>NSC697923 is a selective inhibitor of the E2 ubiquitin (Ub) conjugating enzyme UBE2N (Ubc13).</p> <p>Size: 10 mg, 25 mg. Soluble in DMSO > 10 mM.</p>	


p110 Inhibitor

PI-3065	B4660
<p>PI-3065 is a small molecule and selective inhibitor of p110δ kinase with KI and IC50 of 1.5 nM and 5 nM, respectively.</p> <p>Size: 5 mg, 10 mg, 50 mg, 100 mg.</p> <p>Soluble in DMSO.</p>	

· MDM2	2
· p53	49
· Akt	59
· PTEN	51
· PI3K	57
· mTOR	47
· NF- κ B	14
· CDK-cyclinA	18
· CDK-cyclinB	18
· CDK-cyclinD	18
· CDK-cyclinE	18

for more targets information, please see our website at "<http://www.apexbt.com/research-area/peptases/peptase.html>", or email us: info@apexbt.com.

IFN Inhibitor

Bufexamac	B1443
<p>Bufexamac is a COX inhibitor for IFN-α release with EC50 of 8.9 μM.</p> <p>Size: 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	

IC50s compare:

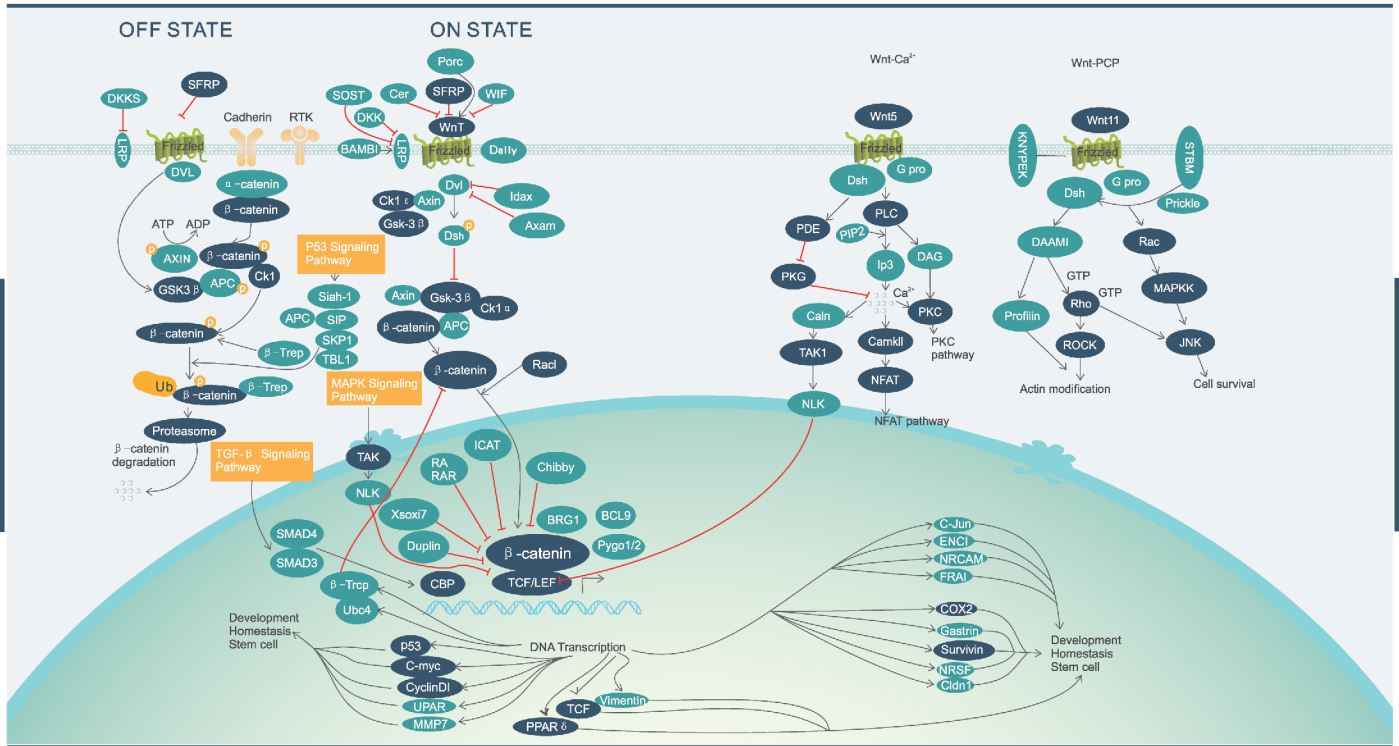
Inhibitors	Proteasome	20s proteasome	Chymotrypsin-like activity of the 20S proteasome	Chymotrypsin-like proteolytic (β 5) site of the 20S proteasome	Caspase-like (β 1) proteolytic sites proteasome	Trypsin-like (β 2) proteolytic sites proteasome	20S proteasome LMP7
MG-132	**	100 nM(IC50)					
Bortezomib		*****	0.6 nM(KI)				
Epoxomicin		*					
Carfilzomib			****	5 nM(IC50)			
ONX-0914							****
PSI			*				10 nM(IC50)
MG-115				*	*		
MG-262			*				
AM 114			*	1 μ M(IC50)			
MLN2238				*****	***	*	
				3.4 nM(IC50)	31 nM(IC50)	3.5 μ M(IC50)	
				0.93 nM(KI)			

Note: ** represents potency. The higher the number of ** is, the more potent the inhibitor or activator is.

Wnt Signaling Pathway

Canonical Wnt Signaling Pathway

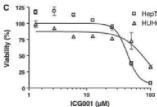
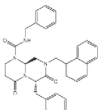
Non-canonical Wnt Signaling Pathway

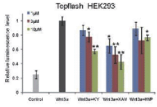
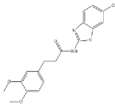


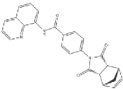
Wnt

Wnt


Wnt Inhibitors

ICG 001	A8217
<p>ICG 001 is an antagonist of Wnt, and specifically binds to element-binding protein (CBP) with IC50 of 3 μM.</p>  <p>ICG 001 reduces dose-dependent the cell viability of HUH6 and HepT1 cells.</p>	 <p>Size: 5 mg, 10 mg, 25 mg, 100 mg. Soluble In DMSO > 10 mM.</p>

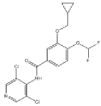
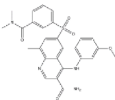
KY 02111	A8213
<p>KY 02111 is a promoter of differentiation of hPSCs to cardiomyocytes and inhibitor of Wnt signaling.</p>  <p>KY 02111 inhibits canonical Wnt pathway.</p>	 <p>Size: 10 mg, 50 mg, 200 mg. Soluble in DMSO > 10 mM.</p>

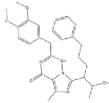
IWR-1-endo	B2306
<p>IWR-1-endo is a potent inhibitor of Wnt signaling with IC50 of 160 nM.</p> <p>Size: 10 mg, 25 mg. Limited solubility.</p>	

SFRP Inhibitor

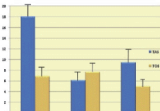

WAY 316606	A3932
<p>WAY 316606 is a selective small-molecule inhibitor of SFRP-1 with EC50 of 0.65 μM.</p> <p>Size: 5 mg, 10 mg, 50 mg, 100 mg. Soluble in DMSO > 10 mM.</p>	

PDE Inhibitors

Roflumilast	A4319
<p>Roflumilast is an orally active and selective inhibitor of PDE4 with IC50 of 0.11 nM.</p> <p>Size: 5 mg, 10 mg, 25 mg, 50 mg. Soluble in DMSO > 10 mM.</p>	
<p>Size: 10 mg, 50 mg, 200 mg. Limited solubility.</p>	<p>GSK256066</p> <p>GSK256066 is a highly potent and selective inhibitor of PDE4 with IC50 of 3.2 μM.</p> 

Bay 60-7550	A3226
<p>Bay 60-7550 is a potent PDE2 inhibitor with IC50 of 2.0 nM (bovine) and 4.7 nM (human), respectively.</p> <p>Size: 5 mg, 10 mg, 100 mg. Soluble in DMSO.</p>	

ROCK Inhibitors

Y-27632	B1293
<p>Y-27632 is a selective inhibitor of ROCK1 (p160ROCK) with Ki of 140 nM, exhibits > 200-fold selectivity over other kinases, including PKC, cAMP-dependent protein kinase, MLCK and PAK.</p>  <p>Y-27632 treatment leads to lower mean total oxidant status values compared with the torsion-detorsion (T/D) group.</p>	 <p>Size: 5 mg, 10 mg, 50 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

Y-27632 dihydrochloride	A3008
<p>Y-27632 2HCl is a selective inhibitor of ROCK1 (p160ROCK) with Ki of 140 nM.</p> <p>Size: 10 mg, 50 mg, 200 mg.</p> <p>Soluble to 100 mM in sterile water.</p>	

Fasudil (HA-1077) HCl	A5734
<p>Fasudil (HA-1077) HCl is a selective inhibitor of ROCK with IC50 of 0.74 μM.</p> <p>Size: 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	

Fasudil	B3523
<p>Fasudil is a potent inhibitor of ROCK-II, PKA, PKG, PKC and MLCK with Ki of 0.33 μM, 1.6 μM, 1.6 μM, 3.3 μM and 36 μM, respectively.</p> <p>Effects of Fasudil on the kidney cell proliferation and apoptosis.</p>	<p>Size: 1 g.</p> <p>Soluble in DMSO.</p> <p>Product Citation: 1. Experimental and Molecular Pathology (2015). PMID: 25697583.</p>

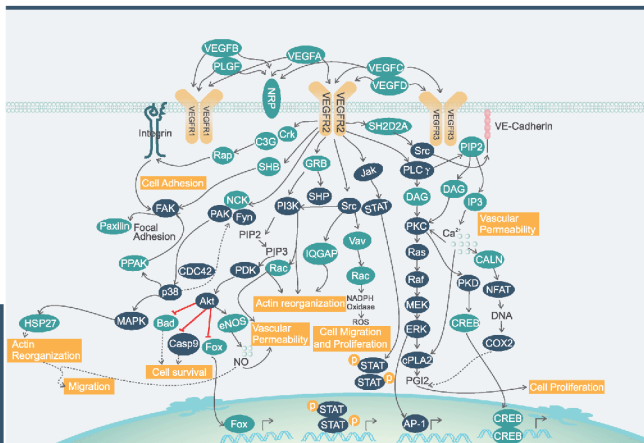
CK1 Inhibitor

PF-670462	A3719
<p>PF-670462 is a potent and selective inhibitor of CK1ϵ and δ with IC50 of 80 nM and 13 nM, respectively.</p> <p>Size: 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	

- GSK-352
- Proteasome65
- Rac60
- PLC34
- PKC23
- NFAT74
- CaMK34
- JNK50
- CYCLIN D18
- PPAR62
- Survivin38
- CK1 ϵ 72
- CK1 α 72
- p5349
- c-Myc42

For more targets information, please see our website at "<http://www.apexbt.com/research-area/stem-cell/wnt-signaling.html>", or email us: info@apexbt.com.

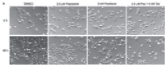
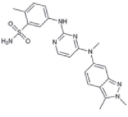
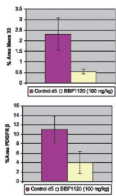
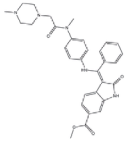
VEGFR Signaling Pathway

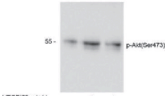
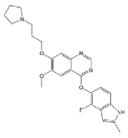


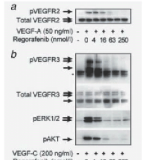
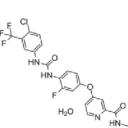
VEGFR

VEGFR Inhibitors

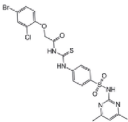
Pazopanib Hydrochloride	A8347	SKLB610	A8237
<p>Pazopanib Hydrochloride is an inhibitor of VEGFR1, 2, 3, PDGFR, FGFR, c-Kit and c-Fms with IC50 of 10 nM, 30 nM, 47 nM, 84 nM, 74 nM, 140 nM and 146 nM, respectively.</p> <p>Effect of oral administration of Pazopanib Hydrochloride vs vehicle on the development of choroidal neovascularization.</p>	<p>Size: 25 mg, 100 mg, 250 mg. Soluble in DMSO > 10 mM.</p>	<p>SKLB610 is a potent VEGFR inhibitor.</p> <p>Treatment of SKLB610 induces apoptosis.</p>	<p>Size: 1 mg, 5 mg, 25 mg. Soluble in DMSO.</p>

<p>Pazopanib (GW-786034)</p> <p>Pazopanib is a novel and multi-target inhibitor of VEGFR1, 2, 3, PDGFR, FGFR, c-Kit and c-Fms with IC50 of 10 nM, 30 nM, 47 nM, 84 nM, 74 nM, 140 nM and 146 nM, respectively.</p>  <p>Combination treatment of Pazopanib and Taxol affects cell morphology.</p>	<p>A3022</p>  <p>Size: 10 mg, 25 mg, 100 mg, 500 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>Nintedanib (BIBF 1120)</p> <p>PSI is an inhibitor of proteasome.</p>  <p>Treatment of BIBF 1120 decreases PDGFR-β expressing cells.</p>	<p>A8252</p>  <p>Size: 510 mg, 50 mg, 100 mg, 200 mg.</p> <p>Soluble in DMSO.</p>
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
<p>Cediranib (AZD217)</p> <p>Cediranib is a highly potent inhibitor of VEGFR with IC50 of <1 nM.</p>  <p>Cediranib inhibits the VEGF induced phosphorylation of Akt.</p>	<p>A1882</p>  <p>Size: 5 mg, 25 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>
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<p>Regorafenib</p> <p>Regorafenib (BAY 73-4506) is a multi-target inhibitor of VEGFR1, 2, 3, PDGFRβ, Kit, RET and Raf-1 with IC50 of 13 nM, 4.2 nM, 46 nM, 22 nM, 7 nM, 1.5 nM and 2.5 nM, respectively.</p>  <p>Regorafenib inhibits growth-factor-stimulated VEGFR2 and 3 autophosphorylation in HUVECs and LECs.</p>	<p>A8236</p>  <p>Size: 10 mg, 50 mg, 100 mg, 200 mg.</p> <p>Soluble in DMSO > 10 mM.</p>
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
CDC42 Inhibitor


<p>ZCL278</p> <p>ZCL278 is a selective inhibitor of CDC42 GTPase with Kd of 11.4 μM.</p> <p>Size: 10 mg, 25 mg, 50 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>A8300</p> 
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
NFAT Inhibitor

<p>INCA-6</p> <p>INCA-6 is a selective inhibitor of calcineurin-NFAT signaling.</p> <p>Size: 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>A4538</p> 
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COX2 Inhibitor

<p>Carprofen</p> <p>Carprofen inhibits canine COX2 with IC50 of 0.03 mM.</p> <p>Size: 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>B1690</p> 
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
Valdecoxib	B1459
Valdecoxib is a potent and selective inhibitor of COX2 with IC50 of 5 nM. Size: 10 mg, 50 mg. Soluble in DMSO > 10 mM.	

Celecoxib	A1664
Celecoxib is a highly selective inhibitor of COX2 with IC50 of 40 nM. Size: 100 mg. Soluble in DMSO > 10 mM.	

- Integrin45
- Src26
- JAK40
- FAK26
- PAK27
- PI3K57
- STAT41
- PKC23
- p3849
- Akt59
- Caspase11
- Ras27
- Raf63
- ERK27
- PKD8

For more targets information, please see our website at "<http://www.apexbt.com/research-area/tyrosine-kinase/vegfr.html>", or email us: info@apexbt.com.

AP-1

SR 11302	A8185
SR 11302 is an inhibitor of activator protein-1 (AP-1). Size: 10 mg. Soluble in DMSO > 10 mM.	

IC50s compare:

Inhibitors	Pan-VEGFR	VEGFR1/FLT1	VEGFR2	VEGFR2/Fik1	VEGFR3/Flt4	mVEGFR-2	mVEGFR-3
Pazopanib Hydrochloride		**** 10 nM(IC50)	*** 30 nM(IC50)		*** 47 nM(IC50)		PDGFR, FGFR
Pazopanib		**** 10 nM(IC50)	*** 30 nM(IC50)		*** 47 nM(IC50)		PDGFR, FGFR
SKLB810	*		*				
Regorafenib		*** 13 nM(IC50)				**** 4.2 nM(IC50)	*** 46 nM(IC50)
Nintedanib		*** 34 nM(IC50)	*** 13 nM(IC50)		*** 13 nM(IC50)		
Cediranib		**** 5 nM(IC50)		***** 0.5 nM(IC50)	**** 3 nM(IC50)		

Note: *ⁿ represents potency. The higher the number of *ⁿ is, the more potent the inhibitor or activator is.

Others Inhibitors

Bromodomain Inhibitors

(+)-JQ1	A1910
<p>(+)-JQ1 is an inhibitor of BET bromodomain with IC50 of 77 nM and 33 nM for BRD4(1) and BRD4(2).</p> <p>Normalized Luminescence</p> <p>Log[Conc[M]]</p> <p>(+)-JQ1 shows potent inhibition of H4Kac4 binding.</p>	<p>Size: 1 mg, 5 mg, 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p> <p>Product Citation: 1. Nature neuroscience (2015). 2. Cell reports (2015).</p>

(-)-JQ1	A8181
<p>(-)-JQ1, the stereoisomer (+)-JQ1, shows no significant interaction with any bromodomain.</p> <p>Relative Expression</p> <p>TGM1 KRT10 KRT14 Rad21 Ran</p> <p>Gene expression level of TGM1, KRT10, KRT14, Rad21 and Ran under the treatment of (+)-JQ1 and (-)-JQ1.</p>	<p>Size: 5 mg, 50 mg, 100 mg.</p> <p>Product Citation: 1. Nature neuroscience (2015). 2. Cell reports (2015).</p>

MTH1 Inhibitor

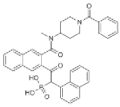
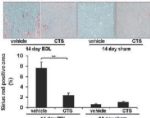
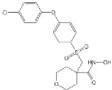
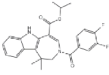
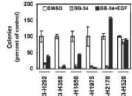
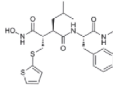
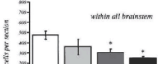

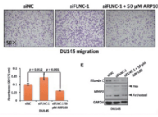


(S)-Crizotinib	A8802
<p>(S)-Crizotinib, the (S)-enantiomer of Crizotinib, is a potent inhibitor of the human <i>mutT</i> homologue MTH1 (NUDT1) with IC50 of 72 nM.</p> <p>(S)-Crisotinib shows different inhibition effects on kinases and other ATP binding proteins in HeLaS3 lysate.</p>	<p>Size: 5 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p> <p>Product Citation: 1. J Proteome Res. 2014 Sep 17.</p>

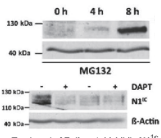
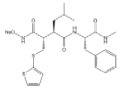
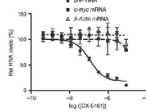
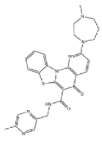
Cathepsin Inhibitors

E-64	A2576
<p>E-64 is a natural, potent and irreversible inhibitor of cysteine proteases. Its IC50 for Cathepsin K, S and L in vitro are 1.4, 4.1, and 2.5 nM, respectively.</p> <p>% Increase in ROS</p> <p>E-64 Concentration</p> <p>E-64 treatment increases ROS generation.</p>	<p>Size: 5 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

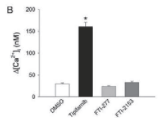
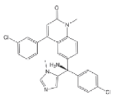
E 64d	A1903
<p>E 64d, a synthetic analog of E 64 and ethyl ester of E 64c, is an irreversible and membrane-permeable inhibitor of lysosomal and cytosolic cysteine proteases. E 64d inhibits Calpain and the cysteine proteases Cathepsins F, K, B, H and L.</p> <p>Untreated E64d (100 μM)</p> <p>Treatment of E 64d on Bcl-2 family protein.</p>	<p>Size: 1 mg, 5 mg, 25 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

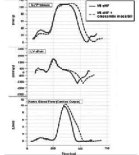
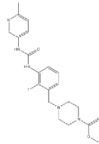
CA 074	A1926
<p>CA 074 is an inhibitor of Cathepsin B with Ki of 2 - 5 nM, and displays selectivity over Cathepsins H and L with Ki of 40 - 200 μM.</p> <p>Average integrated intensity/cell (10³)</p> <p>Average integrated intensity/cell (10³)</p> <p>CA 074 inhibits Cathepsin B.</p>	<p>Size: 1 mg, 5 mg, 10 mg, 25 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

<p>Cathepsin G Inhibitor I</p> <p>Cathepsin G Inhibitor I is a potent, selective, reversible, competitive and non-peptide inhibitor of Cathepsin G.</p> <p>Size: 1 mg, 5 mg, 10 mg.</p> <p>Soluble in DMSO.</p>	<p>A8174</p> 	<p>CTS-1027</p> <p>CTS-1027 is an orally bioavailable and small-molecule inhibitor of MMPs with IC50 of 0.4 nM, 0.6 nM and 800 nM for MMP2, MMP13 and MMP1, respectively.</p>  <p>Hepatic fibrosis is reduced in BDL animals upon treatment with CTS-1027.</p>	<p>A3334</p>  <p>Size: 5 mg, 10 mg, 25 mg.</p> <p>Soluble in DMSO.</p>
<p>FXR Agonist</p> <p>XL335</p> <p>XL335 is a potent, selective and orally bioavailable agonist of the FXR with EC50 of 4 nM.</p> <p>Size: 5 mg, 10 mg, 50 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>B1528</p> 	<p>Batimastat (BB-94)</p> <p>Batimastat (BB-94) is a potent and broad spectrum inhibitor of MMP for MMP1, MMP2, MMP9, MMP7 and MMP3 with IC50 of 3 nM, 4 nM, 4 nM, 6 nM and 20 nM, respectively.</p>  <p>Treatment of Batimastat reduces cancer cell colony formation.</p>	<p>A2577</p>  <p>Size: 1 mg, 5 mg, 10 mg, 25 mg.</p> <p>Soluble in DMSO > 10 mM.</p>
<p>NMDA Antagonist</p> <p>(+)-MK 801</p> <p>(+)-MK 801 is a potent antagonist of NMDA with Ki of 30.5 nM.</p>  <p>Pretreatment with MK 801 dose-dependently decreases the number of c-fos-LI cells.</p>	<p>A3100</p>  <p>Size: 10 mg, 50 mg.</p> <p>Soluble in DMSO, 0.1 M HCl, H2O and ethanol.</p>	<p>ARP 100</p> <p>ARP 100 is a selective inhibitor of MMP2 with IC50 of 12 nM.</p>  <p>Treatment of ARP100 reverses the effect of Flamin C on the cell migration rate.</p>	<p>A4432</p>  <p>Size: 5 mg.</p> <p>Soluble in DMSO > 10 mM.</p> <p>Product Citation: 1. Oncotarget 6.2 (2015): 1171.</p>
<p>MMP Inhibitors</p> <p>CP 471474</p> <p>CP 471474 is a broad spectrum MMP inhibitor IC50 of 0.7, 0.9, 13, 16 and 1170 nM for MMP2, MMP13, MMP9, MMP3 and MMP1 respectively.</p> <p>Size: 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>A4435</p> 		

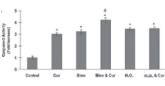
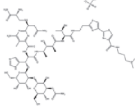
<p>Batimastat sodium salt</p> <p>Batimastat is an anticancer drug that belongs to the family of drugs called angiogenesis inhibitors.</p>  <p>Treatment of Batimastat inhibits N1¹⁰ production.</p>	<p>A3957</p>  <p>Size: 1 mg, 10 mg. 25°C: DMSO.</p>	<p>CX-5461</p> <p>CX-5461 is an inhibitor of rRNA synthesis with IC₅₀ of 142 nM for Pol I-driven transcription of rRNA.</p>  <p>Treatment of CX-5461 inhibits rRNA synthesis.</p>	<p>A8337</p>  <p>Size: 5 mg, 10 mg, 50 mg. Limited solubility.</p>
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ATPase Activator

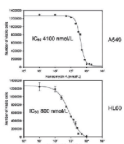

<p>Transferase Inhibitor</p>	
<p>Tipifarnib (Zarnestra)</p> <p>Tipifarnib (R115777) is a potent and specific inhibitor of farnesyltransferase with IC₅₀ of 0.6 nM.</p>  <p>Tipifarnib promotes Ca²⁺ elevation.</p>	<p>A4227</p>  <p>Size: 5 mg, 25 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

<p>Omecantiv mecarbil</p> <p>Omecantiv mecarbil (CK-1827452) is a specific activator of cardiac myosin activator and a clinical drug for left ventricular systolic heart failure.</p>  <p>Contractile effects of Omecantiv mecarbil.</p>	<p>A8349</p>  <p>Size: 5 mg, 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p>
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DNA Synthesis Inhibitor and Agent

<p>Bleomycin Sulfate</p> <p>Bleomycin Sulfate is a glycopeptide antibiotic and an anticancer agent for squamous cell carcinomas (SCC) with IC₅₀ of 4 nM in UT-SCC-19A cells.</p>  <p>Caspase-3 activity in Bleomycin treated cells.</p>	<p>A8331</p>  <p>Size: 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p>
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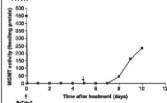
DNMT Inhibitors

<p>Nanaomycin A</p> <p>Nanaomycin A is a selective inhibitor of DNMT3B.</p>  <p>Treatment of Nanaomycin A affects cell viability.</p>	<p>A8191</p>  <p>Size: 5 mg, 25 mg. Soluble in methanol.</p>
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Other

Lomeguatril

Lomeguatril is a potent inhibitor of O⁶-alkylguanine-DNA-alkyltransferase with IC₅₀ of 5 nM.



Treatment of Lomeguatril on the MGMT activity.

A1912

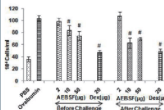


Size: 5 mg, 10 mg, 25 mg.

Soluble in DMSO > 10 mM.

AEBSF.HCl

AEBSF.HCl is an irreversible and broad spectrum inhibitor of serine protease.



Treatment of AEBSF suppresses cellular infiltration.

A2573



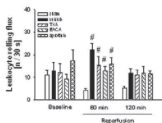
Size: 25 mg, 100 mg, 500 mg.

Soluble in DMSO > 10 mM.

Serine Protease Inhibitors

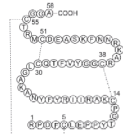
Aprotinin

Aprotinin is the small protein bovine pancreatic trypsin inhibitor (BPTI).



Treatment of Aprotinin affects postischemic leukocyte response.

A2574



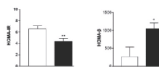
Size: 10 mg, 100 mg.

Soluble to 10 mg/ml in sterile water.

DPP4 Inhibitors

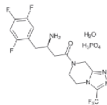
Sitagliptin phosphate monohydrate

Sitagliptin phosphate is a potent inhibitor of DPP5 with IC₅₀ of 19 nM in Caco-2 cell extracts.



Treatment of sitagliptin decreases insulin resistance and enhances beta-cell function.

A4036



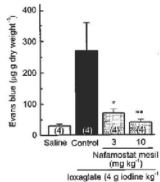
Size: 200 mg, 500 mg.

Soluble in DMSO > 10 mM.

Product Citation: 1. Diabetes, Obesity and Metabolism (2015).

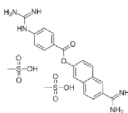
Nafamostat Mesylate (FUT-175)

Nafamostat Mesylate is an anticoagulant.



Treatment of Nafamostat reverses the ixoaglate-induced pulmonary vascular hyper-permeability in rats.

A2586

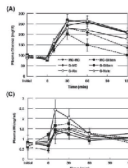


Size: 10 mg, 50 mg.

Soluble in DMSO > 10 mM.

Alogliptin (SYR-322)

Alogliptin is a potent, selective inhibitor of DPP4 with IC₅₀ of < 10 nM, exhibits greater than 10,000-fold selectivity over DPP8 and DPP9.



Effects of Alogliptin on plasma glucose and plasma IRI.

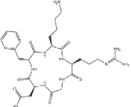
A4038



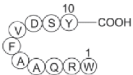
Size: 5 mg, 10 mg, 50 mg, 100 mg.

Soluble in DMSO > 10 mM.


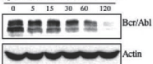
Integrin Inhibitor

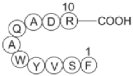
Cyclo (-RGDFK)	A8164
Cyclo (-RGDFK) is a potent and selective inhibitor of the $\alpha v \beta 3$ integrin.	
Size: 1 mg, 5 mg.	
Soluble in Water.	


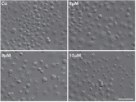
Gap Junction Blocker

10Panx	A2700
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.	


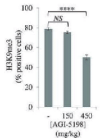
DUB Inhibitors

WP1130	A8323
WP1130 is a selective inhibitor of DUB.	
Exposure (min) to 5 μ M WP1130	
	
WP1130 inhibits the activity of Bcr/Abl.	Size: 5 mg, 10 mg, 50 mg, 100 mg.
	Soluble in DMSO > 10 mM.

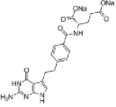
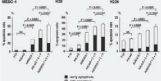
Scrambled 10Panx	A2701
10Panx, Panx-1 mimetic inhibitory peptide, is a blocker of pannexin-1 gap junctions.	
Size: 1 mg, 5 mg, 10 mg, 25 mg.	
Soluble to 0.50 mg/ml in sterile water.	


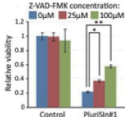
PR-619	A8212
PR-619 is a non-selective and reversible inhibitor of the DUBs with EC50 of 1 - 20 μ M.	
	Size: 1 mg, 5 mg, 25 mg, 100 mg.
Treatment of PR-619 affects cell morphology.	Soluble in DMSO > 10 mM.

Dehydrogenase Inhibitor

AGI-5198	A4339
AGI-5198 is the first highly potent and selective inhibitor of IDH1 R132H and IDH1 R132C mutants with IC50 of 0.07 μ M and 0.16 μ M, respectively.	
	Size: 5 mg, 25 mg.
AGI-5198 inhibits H3K9 trimethylation.	Soluble in DMSO > 10 mM.

DHFR Inhibitor

Pemetrexed	A4390
Pemetrexed is a novel antifolate and antimetabolite for TS, DHFR and GARFT with Ki of 1.3 nM, 7.2 nM and 65 nM, respectively.	
	Size: 10 mg, 50 mg, 200 mg.
Treatment of Pemetrexed induces apoptosis.	Limited solubility.

NSC 14613	A4351
PluriSIn #1 (NSC 14613) is an inhibitor of the stearyl-coA desaturase 1 (SCD1).	
	Size: 10 mg, 50 mg.
Treatment of PluriSIn #1 in the presence of pan-caspase inhibitor Z-VAD-FMK.	Soluble in DMSO.

HCV Protease Inhibitor

PSI-6206	A8189
<p>PSI-6206 (RO2433) is a selective inhibitor of HCV RNA polymerase.</p> <p>Deaminated metabolite PSI-6206 (circles) after IV administration of PSI-8130.</p>	<p>Size: 5 mg, 10 mg, 25 mg, 50 mg. Soluble in DMSO.</p>

Amprenavir (agenerase)	A8201
<p>Amprenavir is an inhibitor of HIV protease with IC50 of 14.6 ng/mL in wild-type HIV isolates.</p> <p>Metabolism of Amprenavir in liver microsomes.</p>	<p>Size: 5 mg, 50 mg. Soluble in DMSO > 10 mM.</p>

HIV Protease Inhibitors

Ritonavir	A8203
<p>Ritonavir is an antiretroviral (HIV) drug and inhibitor of particular liver enzyme that normally metabolizes protease.</p> <p>Effect of Ritonavir on the human liver microsomal metabolism of ABT-378.</p>	<p>Size: 10 mg, 25 mg, 50 mg, 100 mg. Soluble in DMSO > 10 mM.</p>

Microtubule/Tubulin Agent	A4393
<p>Paclitaxel is a microtubule polymer stabilizer with IC50 of 0.1 pM in human endothelial cells.</p> <p>Taxol treatment induces mitotic arrest and abnormal spindle formation.</p>	<p>Size: 10 mg, 50 mg. Soluble in DMSO > 10 mM.</p>

Darunavir	A8206
<p>Darunavir is an inhibitor of HIV protease.</p> <p>Darunavir has no effect on Provirus activation.</p>	<p>Size: 5 mg, 50 mg. Soluble in DMSO > 10 mM. Product Citation: 1. The Journal of Immunology (2014): 1303030.</p>

Pim Inhibitor	A4192
<p>SGI-1776 free base</p> <p>SGI-1776 is a novel ATP competitive inhibitor of Pim1 with IC50 of 7 nM, 50- and 10-fold selective versus Pim2 and Pim3.</p> <p>Potential targets of SGI-1776 in CLL primary cell line.</p>	<p>Size: 5 mg, 10 mg, 50 mg. Soluble in DMSO > 10 mM. Product Citation: 1. Sci Signal. 2014 Dec 23.</p>

TGF- β R1 Inhibitors

LY2109761	A8464
<p>LY2109761 is a novel and selective dual inhibitor of TGF-β receptor type I/II (TβRI/II) with Ki of 38 nM and 300 nM, respectively.</p> <p>Treatment of LY2109761 effects the levels of P-Smad2, total Smad2 and β-actin.</p>	<p>Size: 5 mg, 10 mg, 50 mg.</p> <p>Limited solubility.</p> <p>Product Citation: 1. Molecular and Cellular Biology (2014); MCB-00611.</p>

SB525334	A5602
<p>SB525334 is a potent and selective inhibitor of TGF-β receptor I with IC50 of 14.3 nM, is 4-fold less potent to ALK4 than ALK5 and inactive to ALK2, ALK3 and ALK6.</p> <p>SB525334 inhibits p38a Kinase activity.</p>	<p>Size: 5 mg, 25 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

LY2157299	A8348
<p>LY2157299 is a potent inhibitor of TGF-βRI with IC50 of 56 nM.</p> <p>LY2157299 inhibits TGF-β pathway.</p>	<p>Size: 5 mg, 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

AhR Inhibitor

StemRegenin 1 (SR1)	A8224
<p>StemRegenin 1 is an inhibitor of AhR with IC50 of 127 nM.</p> <p>SR1 maintains an HSC phenotype and increases CFU content.</p>	<p>Size: 10 mg, 50 mg, 100 mg, 200 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

Thrombin Inhibitor

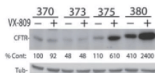
PPACK Dihydrochloride	A2588
<p>PPACK Dihydrochloride is a potent, selective and irreversible inhibitor of thrombin with Ki of 0.24 nM.</p> <p>Size: 5 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	<p>HCl HCl</p>

CFTR Potentiator and Inhibitor

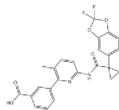
Ivacaftor (VX-770)	A5047
<p>Ivacaftor (VX-770) is a potentiator of CFTR for G551D-CFTR and F508del-CFTR with EC50 of 100 nM and 25 nM, respectively.</p> <p>Ivacaftor Inhibits mutant CFTR.</p>	<p>Size: 5 mg, 25 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

VX-809

VX-809 (Lumacaftor) acts to correct CFTR mutations common in cystic fibrosis by increasing mutant CFTR (F508del-CFTR) maturation with EC50 of 0.1 μ M.



VX-809 stabilizes N-terminal region of CFTR.

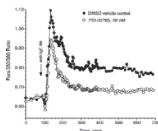
A8351

Size: 5 mg, 10 mg, 50 mg.

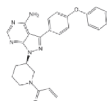
Soluble in DMSO > 10 mM.

PCI-32765 (Ibrutinib)

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, HER2, JAK3, etc.



Treatment of PCI-32765 in besipholes.

A3001

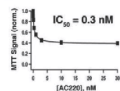
Size: 5 mg, 10 mg, 50 mg, 200 mg.

Soluble in DMSO > 10 mM.

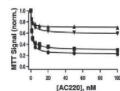
FLT3 Inhibitor**Quizartinib (AC220)**

Quizartinib (AC220) is a second-generation inhibitor of FLT3 for FLT3 (ITD/WT) with IC50 of 1.1 nM and 4.2 nM, respectively. It is 10-fold more selective for FLT3 than KIT, PDGFR α , PDGFR β , RET and CSF-1R.

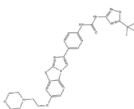
B



C



Treatment of Quizartinib reduces cell viability.

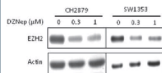
A5793

Size: 5 mg, 25 mg, 100 mg.

Soluble in DMSO > 10 mM.

EZH2 Inhibitors**3-Deazaneplanocin, DZNep**

3-deazaneplanocin A (DZNep), an analog of adenosine, is a competitive inhibitor of S-adenosylhomocysteine hydrolase with Ki of 50 pM.



Treatment of DZNep inhibits EZH2 level.

A1905

Size: 5 mg, 10 mg, 25 mg, 50 mg.

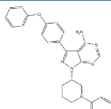
Soluble in Water.

BTK Inhibitors**PCI-32765 Racemate**

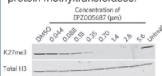
PCI-32765 is an inhibitor of BTK with IC50 of 0.5 nM.

Size: 1 g.

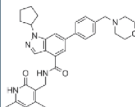
Soluble in DMSO.

B3242**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.



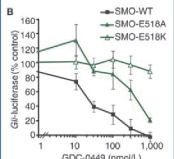
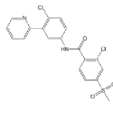
EPZ005687 inhibits H3K27 methylation.

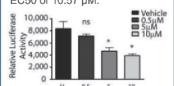
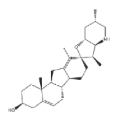
A4171

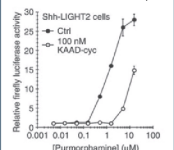
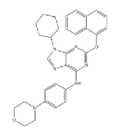
Size: 5 mg, 25 mg.

Limited solubility.

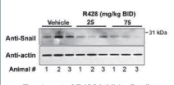
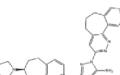
Hedgehog Inhibitors

GDC-0449 (Vismodegib)	A3021																				
<p>Vismodegib (GDC-0449) 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.</p> <p>B</p>  <table border="1"> <caption>Approximate data from Gli-luciferase activity graph</caption> <thead> <tr> <th>GDC-0449 (nmol/L)</th> <th>SMO-WT (%)</th> <th>SMO-ES18A (%)</th> <th>SMO-ES18K (%)</th> </tr> </thead> <tbody> <tr><td>1</td><td>100</td><td>100</td><td>100</td></tr> <tr><td>10</td><td>~80</td><td>~100</td><td>~100</td></tr> <tr><td>100</td><td>~40</td><td>~100</td><td>~100</td></tr> <tr><td>1,000</td><td>~20</td><td>~100</td><td>~100</td></tr> </tbody> </table> <p>Treatment of GDC-0449 transfects the gli-luciferase reporter activity in CH310T 1/2 cells.</p> <p>Size: 10 mg, 50 mg, 200 mg, 500 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	GDC-0449 (nmol/L)	SMO-WT (%)	SMO-ES18A (%)	SMO-ES18K (%)	1	100	100	100	10	~80	~100	~100	100	~40	~100	~100	1,000	~20	~100	~100	 <p>Size: 10 mg, 50 mg, 200 mg, 500 mg.</p> <p>Soluble in DMSO > 10 mM.</p>
GDC-0449 (nmol/L)	SMO-WT (%)	SMO-ES18A (%)	SMO-ES18K (%)																		
1	100	100	100																		
10	~80	~100	~100																		
100	~40	~100	~100																		
1,000	~20	~100	~100																		

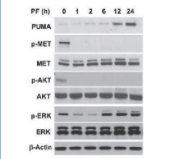
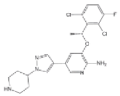
Cyclopamine	A8340										
<p>Cyclopamine is a naturally occurring Hedgehog specific small molecule signaling steroidal alkaloid inhibitor with EC50 of 10.57 μM.</p>  <table border="1"> <caption>Approximate data from Relative Luciferase Activity graph</caption> <thead> <tr> <th>Cyclopamine (µM)</th> <th>Relative Luciferase Activity</th> </tr> </thead> <tbody> <tr><td>V (Vehicle)</td><td>~9,000</td></tr> <tr><td>0.5</td><td>~7,500 (ns)</td></tr> <tr><td>5</td><td>~4,500 (*)</td></tr> <tr><td>10</td><td>~3,500 (*)</td></tr> </tbody> </table> <p>Cyclopamine inhibits Hedgehog pathway.</p> <p>Size: 5 mg, 10 mg, 25 mg.</p> <p>Limited solubility.</p>	Cyclopamine (µM)	Relative Luciferase Activity	V (Vehicle)	~9,000	0.5	~7,500 (ns)	5	~4,500 (*)	10	~3,500 (*)	 <p>Size: 5 mg, 10 mg, 25 mg.</p> <p>Limited solubility.</p>
Cyclopamine (µM)	Relative Luciferase Activity										
V (Vehicle)	~9,000										
0.5	~7,500 (ns)										
5	~4,500 (*)										
10	~3,500 (*)										

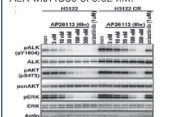
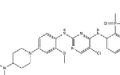
Purmorphamine	A8228																		
<p>Purmorphamine is a blocker of BODIPY-cyclopamine binding to Smo with IC50 of ~ 1.5 μM and also an inducer of osteoblast differentiation with EC50 of 1 μM.</p>  <table border="1"> <caption>Approximate data from Relative firefly luciferase activity graph</caption> <thead> <tr> <th>Purmorphamine (µM)</th> <th>Ctrl</th> <th>100 nM KAAD-cyc</th> </tr> </thead> <tbody> <tr><td>0.001</td><td>~1</td><td>~1</td></tr> <tr><td>0.01</td><td>~1</td><td>~1</td></tr> <tr><td>0.1</td><td>~1</td><td>~1</td></tr> <tr><td>1</td><td>~8</td><td>~2</td></tr> <tr><td>10</td><td>~25</td><td>~15</td></tr> </tbody> </table> <p>Purmorphamine activates Hedgehog pathway.</p> <p>Size: 5 mg, 25 mg.</p> <p>Limited solubility.</p>	Purmorphamine (µM)	Ctrl	100 nM KAAD-cyc	0.001	~1	~1	0.01	~1	~1	0.1	~1	~1	1	~8	~2	10	~25	~15	 <p>Size: 5 mg, 25 mg.</p> <p>Limited solubility.</p>
Purmorphamine (µM)	Ctrl	100 nM KAAD-cyc																	
0.001	~1	~1																	
0.01	~1	~1																	
0.1	~1	~1																	
1	~8	~2																	
10	~25	~15																	

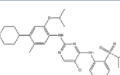
Axl Inhibitor

R428	A8329
<p>R428 (BGB324) is an inhibitor of Axl with IC50 of 14 nM, > 100-fold selective for Axl versus Abl.</p>  <p>Treatment of R428 inhibits Snaill expression.</p> <p>Size: 5 mg, 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	 <p>Size: 5 mg, 10 mg, 50 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

ALK Inhibitors

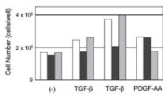
(R)-Crizotinib	A3020
<p>Crizotinib (PF-02341066) is a potent inhibitor of c-Met and ALK with IC50 of 11 nM and 24 nM, respectively.</p>  <p>HCT116 cells were treated with Crizotinib.</p> <p>Size: 5 mg, 10 mg, 50 mg.</p> <p>Limited solubility.</p>	 <p>Size: 5 mg, 10 mg, 50 mg.</p> <p>Limited solubility.</p>

AP26113	A1367
<p>AP26113 is a potent inhibitor of ALK with IC50 of 0.62 nM.</p>  <p>AP26113 inhibits ALK pathway.</p> <p>Size: 5 mg, 25 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>	 <p>Size: 5 mg, 25 mg, 100 mg.</p> <p>Soluble in DMSO > 10 mM.</p>

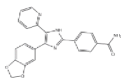
LDK378	A8328
<p>LDK378 is a potent inhibitor of ALK with IC50 of 0.2 nM.</p> <p>Size: 10 mg, 50 mg, 200 mg.</p> <p>Soluble in DMSO.</p>	 <p>Size: 10 mg, 50 mg, 200 mg.</p> <p>Soluble in DMSO.</p>

SB 431542

SB 431542 is a potent and selective inhibitor of ALK5 with IC50 of 94 nM, 100-fold more selective for ALK5 than p38 MAPK and other kinases.



Effect of SB 431542 on cell proliferation.

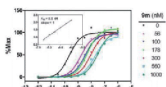
A8249

Size: 1 mg, 10 mg.

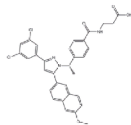
Soluble in DMSO > 10 mM.

Glucagon Receptor Inhibitor**MK 0893**

MK 0893 is an inhibitor of both glucagon receptor and IGF-1R with IC50 of 6.6 nM and 6 nM, respectively.



MK 0893 is tested by Schild Analysis in CHO cells.

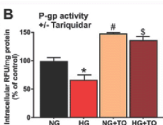
A3608

Size: 5 mg, 200 mg.

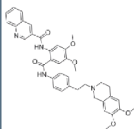
Soluble in DMSO.

P-gp Inhibitors**Tariquidar**

Tariquidar (XR9576) is a potent and selective noncompetitive inhibitor of P-gp with Kd of 5.1 nM.



Effects of hypo- and hyperglycemic challenge on P-gp and BCRP efflux activity.

A8208

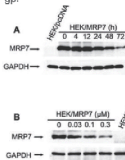
Size: 10 mg, 50 mg.

Soluble in DMSO > 10 mM.

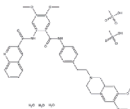
Product Citation:
1. Neuroscience letters 598 (2015): 59 - 65. PMID: 25982326.

Tariquidar methanesulfonate, hydrate

Tariquidar methanesulfonate, hydrate is a potent inhibitor of P-gp.



Treatment of Tariquidar downregulates MRP7.

A3859

Size: 10 mg, 25 mg, 50 mg, 100 mg.

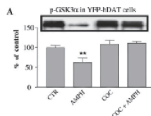
Soluble in DMSO.

Akt Related

KinaseSTAR Akt Activity Assay Kit

K2080

The KinaseSTAR Akt Activity Assay Kit provides a specific and simple way for detection of Akt activity based on Western Blot method.



Cocaine blocks the AMPH-induced decrease of Akt activity.

Size: 40 assays.

Sample type:
Cell and Tissue lysates.

Species reactivity:
Mammalian.

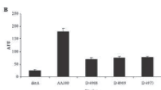
Detection method: Western blot analysis using anti-Phospho-GSK-3α (Ser 21) antibody at 1:1000 dilutions.

Caspase Related

Caspase-3 Fluorometric Assay Kit

K2007

The Caspase-3 Fluorometric Assay Kit provides a convenient and simple way for detecting the DEVD-dependent caspase activity.



Detection of Caspase-3 activation by its cleavage of a fluorescent substrate.

Size: 25 assays, 100 assays, 200 assays, 400 assays.

Sample type:
Cell and tissue lysates.

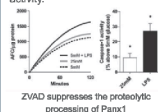
Species reactivity:
Mammalian.

Detection method: Fluorescence (400 nm excitation filter and 505 nm emission filter).

Caspase-1 Fluorometric Assay Kit

K2010

The Caspase-1 Fluorometric Assay Kit provides a convenient and simple way for detecting the YVAD-dependent caspase activity.



ZVAD suppresses the proteolytic processing of Panx1

Size: 25 assays, 100 assays, 200 assays, 400 assays.

Sample type:
Cell and tissue lysates.

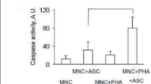
Species reactivity:
Mammalian.

Detection method: Fluorescence (400 nm excitation filter and 505 nm emission filter).

Caspase-1 Colorimetric Assay Kit

K2011

The Caspase-1 Colorimetric Assay Kit provides a convenient and simple way for detecting the YVAD-dependent caspase activity.



Measurement of Caspase-1 activity in ASC-MNC by Caspase-1 Colorimetric Assay Kit.

Size: 25 assays, 100 assays, 200 assays, 400 assays.

Sample type:
Cell and tissue lysates.

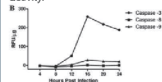
Species reactivity:
Mammalian.

Detection method: Absorbance (400 or 405 nm).

Caspase-8 Fluorometric Assay Kit

K2012

The Caspase-8 Fluorometric Assay Kit provides a convenient and simple way for detecting the IETD-dependent caspase activity.



Fluorometric analysis of Caspase-3, -8 and -9 activities in MNV-1-infected RAW264.

Size: 25 assays, 100 assays, 200 assays, 400 assays.

Sample type:
Cell and tissue lysates.

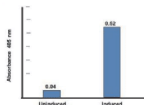
Species reactivity:
Mammalian.

Detection method: Fluorescence (400 nm excitation filter and 505 nm emission filter).

Caspase-3 Colorimetric Assay Kit

K2008

The Caspase-3 Colorimetric Assay Kit provides a convenient and simple way for detecting the DEVD-dependent caspase activity.



Induction of Caspase-3 activity by Anti-Fas antibody in Jurkat-T cells by Caspase-3 Colorimetric Assay Kit.

Size: 25 assays, 100 assays, 200 assays, 400 assays.

Sample type:
Cell and tissue lysates.

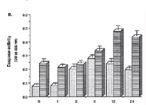
Species reactivity:
Mammalian.

Detection method:
Absorbance (400 or 405 nm).

Caspase-6 Colorimetric Assay Kit

K2015

The Caspase-6 Colorimetric Assay Kit provides a convenient and simple way for detecting the VEID-dependent caspase activity.



Increased caspase activities in CEM cells treated with 3-IAABE (Activity of Caspase-6 was measured by Caspase-6 Colorimetric Assay Kit).

Size: 25 assays, 100 assays, 200 assays, 400 assays.

Sample type:
Cell and tissue lysates.

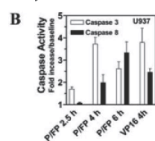
Species reactivity:
Mammalian.

Detection method:
Absorbance (400 or 405 nm).

Caspase-8 Colorimetric Assay Kit

K2013

The Caspase-8 Colorimetric Assay Kit provides a convenient and simple way for detecting the IETD-dependent caspase activity.



Effects of PMA/FP coadministration on Caspase-8 activation.

Size: 25 assays, 100 assays, 200 assays, 400 assays.

Sample type:
Cell and tissue lysates.

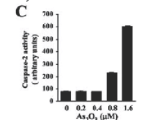
Species reactivity:
Mammalian.

Detection method:
Absorbance (400 or 405 nm).

Caspase-2 Fluorometric Assay Kit

K2016

The Caspase-2 Fluorometric Assay Kit provides a convenient and simple way for detecting the VDVAID-dependent caspase activity.



Dose response of Caspase-2 activation induced by As₂O₃ (Caspase-2 activation detected by Caspase-2 Fluorometric Assay Kit).

Size: 25 assays, 100 assays, 200 assays, 400 assays.

Sample type:
Cell and tissue lysates.

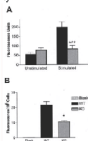
Species reactivity:
Mammalian.

Detection method:
Fluorescence (400 nm excitation filter and 505 nm emission filter).

Caspase-6 Fluorometric Assay Kit

K2014

The Caspase-6 Fluorometric Assay Kit provides a convenient and simple way for detecting the VEID-dependent caspase activity.



Impaired transcriptional up-regulation and enzymatic activity of Caspase-6 in p53-deficient T cells.

Size: 25 assays, 100 assays, 200 assays, 400 assays.

Sample type:
Cell and tissue lysates.

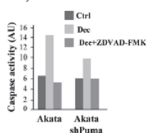
Species reactivity:
Mammalian.

Detection method:
Fluorescence (400 nm excitation filter and 505 nm emission filter).

Caspase-2 Colorimetric Assay Kit

K2017

The Caspase-2 Colorimetric Assay Kit provides a convenient and simple way for detecting the VDVAID-dependent caspase activity.



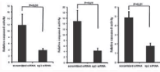
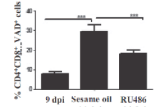
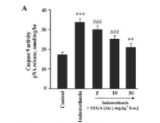
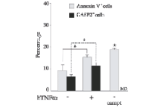
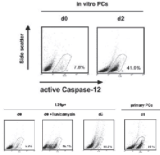
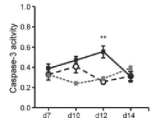
Caspase-2 activity was measured by Caspase-2 Colorimetric Assay Kit.

Size: 25 assays, 100 assays, 200 assays, 400 assays.

Sample type:
Cell and tissue lysates.

Species reactivity:
Mammalian.

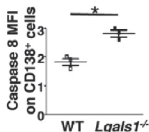
Detection method:
Absorbance (400 or 405 nm).

<p>Caspase-9 Fluorometric Caspase Assay Kit</p> <p>The Caspase-9 Fluorometric Assay Kit provides a convenient and simple way for detecting the LEHD-dependent caspase activity.</p>  <p>Caspases are reduced by Sp3 silencing.</p>	<p>K2018</p> <p>Size: 25 assays, 100 assays, 200 assays, 400 assays.</p> <p>Sample type: Cell and tissue lysates.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (400 nm excitation filter and 505 nm emission filter).</p>	<p>Fluorescein Active Caspase Staining Kit</p> <p>The Fluorescein Caspase Staining Kit is an easy and sensitive way of detecting activated caspases in living cells. This assay uses the caspase family inhibitor, VAD-FMK, coupled to FITC (FITC-VAD-FMK) as a marker.</p>  <p>DP thymocytes were labeled for VAD-FITC by Fluorescein Active Caspase Staining Kit.</p>	<p>K2047</p> <p>Size: 25 assays, 100 assays.</p> <p>Sample type: Living cells.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Flow cytometry and fluorescence plate reader (Ex. = 485 nm and Em. = 535 nm).</p>
<p>Caspase-9 Colorimetric Assay Kit</p> <p>The Caspase-9 Colorimetric Assay Kit provides a convenient and simple way for detecting the LEHD-dependent caspase activity.</p>  <p>SEGA prevents the activation of mitochondrial pathway of apoptosis.</p>	<p>K2019</p> <p>Size: 25 assays, 100 assays, 200 assays, 400 assays.</p> <p>Sample type: Cell and tissue lysates.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (400 or 405 nm).</p>	<p>Fluorescein Active Caspase-2 Staining Kit</p> <p>The Fluorescein Active Caspase-2 Staining Kit is an easy and sensitive way of detecting activated Caspase-2 in living cells.</p>  <p>HUVECs expressed Caspase-2 activity was evaluated by the Fluorescein Active Caspase-2 Staining Kit.</p>	<p>K2048</p> <p>Size: 25 assays, 100 assays.</p> <p>Sample type: Living cells.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Flow cytometry and fluorescence plate reader (Ex. = 485 nm and Em. = 535 nm).</p>
<p>Fluorescein Active Caspase-12 Staining Kit</p> <p>The Fluorescein Caspase-12 Staining Kit is an easy and sensitive way of detecting activated Caspase-12 in living cells. This assay uses the Caspase-12 inhibitor, ATAD-FMK, coupled to FITC (FITC-ATAD-FMK) as a marker.</p>  <p>Analysis of Caspase-12 activation by staining with Fluorescein Caspase-12 Staining kit.</p>	<p>K2046</p> <p>Size: 25 assays, 100 assays.</p> <p>Sample type: Living cells.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Flow cytometry and fluorescence plate reader (Ex. = 485 nm and Em. = 535 nm).</p>	<p>Fluorescein Active Caspase-3 Staining Kit</p> <p>The Fluorescein Active Caspase-3 Staining Kit is an easy and sensitive way of detecting activated Caspase-3 in living cells.</p>  <p>Flow cytometry for Caspase-3 activity is measured by Fluorescein Active Caspase-3 Staining Kit.</p>	<p>K2049</p> <p>Size: 25 assays, 100 assays.</p> <p>Sample type: Living cells.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Flow cytometry and fluorescence plate reader (Ex. = 485 nm and Em. = 535 nm).</p>

Fluorescein Active Caspase-8 Staining Kit

K2050

The Fluorescein Caspase-8 Staining Kit is an easy and sensitive way of detecting activated Caspase-8 in living cells.



Quantification of Caspase-8 activation by Fluorescein Active Caspase-8 Staining Kit and flow cytometry.

Size: 25 assays, 100 assays.

Sample type: Living cells.

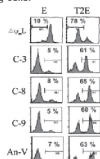
Species reactivity: Mammalian.

Detection method: Flow cytometry and fluorescence plate reader (Ex. = 485 nm and Em. = 535 nm).

Red Active Caspase-8 Staining Kit

K2054

The Red Caspase-8 Staining Kit is an easy and sensitive way of detecting activated caspases in living cells.



The activated Caspase-8 was evaluated with the Red Active Caspase-8 staining kits by flow cytometry.

Size: 25 assays, 100 assays.

Sample type: Living cells.

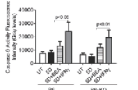
Species reactivity: Mammalian.

Detection method: Flow cytometry and fluorescence plate reader (Ex/Em = 540/570 nm).

Fluorescein Active Caspase-9 Staining Kit

K2051

The Fluorescein Caspase-9 Staining Kit is an easy and sensitive way of detecting activated Caspase-9 in living cells.



Desiccating stress has no effect on Caspase-9 activity in B6 mice and B6y KO mice.

Size: 25 assays, 100 assays.

Sample type: Living cells.

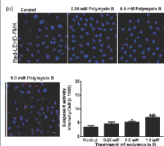
Species reactivity: Mammalian.

Detection method: Flow cytometry and fluorescence plate reader (Ex. = 485 nm and Em. = 535 nm).

Red Active Caspase-9 Staining Kit

K2055

The Red Caspase-9 Staining Kit is an easy and sensitive way of detecting activated caspases in living cells.



Activation of Caspase-9 in rat kidney proximal tubular cells was measured by Red Active Caspase-9 Staining Kit.

Size: 25 assays, 100 assays.

Sample type: Living cells.

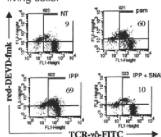
Species reactivity: Mammalian.

Detection method: Flow cytometry and fluorescence plate reader (Ex/Em = 540/570 nm).

Red Active Caspase-3 Staining Kit

K2053

The Red Caspase-3 Staining Kit is an easy and sensitive way of detecting activated caspases in living cells.



Both IPP and Pamidonate strongly increase the percentage of Caspase 3-positive cells in long-term cultured $\gamma\delta$ T cell clones.

Size: 25 assays, 100 assays.

Sample type: Living cells.

Species reactivity: Mammalian.

Detection method: Flow cytometry and fluorescence plate reader (Ex/Em = 540/570 nm).

Red Active Caspase Staining Kit

K2052

The Red Active Caspase Staining Kit is an easy and sensitive way of detecting activated caspases in living cells. This assay uses the caspase family inhibitor, VAD-FMK, coupled to sulfo-rhodamine as a marker.

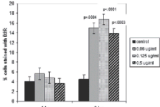
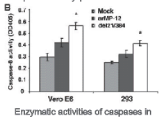
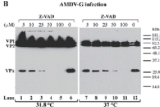
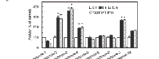
Size: 25 assays, 100 assays.

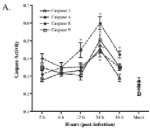
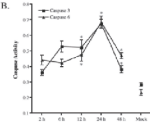
Size: 25 assays, 100 assays.

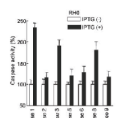
Sample type: Living cells.

Species reactivity: Mammalian.

Detection method: Flow cytometry and fluorescence plate reader (Ex/Em = 540/570 nm).

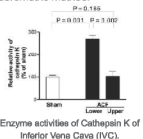
<p>Caspase Screening Kit</p> <p>The Caspase Screening Kit is an easy and sensitive way of detecting activated caspases in living cells.</p>  <p>Effect of Caspofungin on intracellular metacaspase activation, as determined by Caspase Screening Kit.</p>	<p>K2056</p> <p>Size: 25 assays, 100 assays.</p> <p>Sample type: Living cells.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Flow cytometry, L-1 channel (Ex/Em = 488/530 nm).</p>	<p>Caspase Colorimetric Substrate Set II</p> <p>Caspase Colorimetric Substrate Set II is composed of ready-to-use colorimetric substrates for Caspase-1, -2, -3, -4, -5, -6, -8, -9 and -10 of caspase family proteases.</p>  <p>Enzymatic activities of caspases in virus-infected cells.</p>	<p>K2145</p> <p>Size: 9 x 25 assays.</p> <p>Sample type: Cell culture.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (400 or 405 nm).</p>																																																																								
<p>Active Human Caspases Group IV</p> <p>Active Human Caspases Group IV are recombinant caspases that expressed in E.coli, and as a positive control in caspase activity assays.</p> <p>Hydrolysis of pNA-7851 by recombinant caspases</p> <table border="1" data-bbox="80 642 301 780"> <thead> <tr> <th>Enzyme</th> <th>Type</th> <th>Source</th> <th>Activity</th> </tr> </thead> <tbody> <tr> <td>Trypsin</td> <td>Serine protease</td> <td>Passeris</td> <td>1000000</td> </tr> <tr> <td>Chymotrypsin</td> <td>Serine protease</td> <td>Passeris</td> <td>500</td> </tr> <tr> <td>Cathepsin A</td> <td>Serine protease</td> <td>Passeris</td> <td>500</td> </tr> <tr> <td>Cathepsin B</td> <td>Serine protease</td> <td>Stromboli</td> <td>50</td> </tr> <tr> <td>Cathepsin C</td> <td>Serine protease</td> <td>Stromboli</td> <td>200</td> </tr> <tr> <td>Cathepsin D</td> <td>Aspartic protease</td> <td>Passeris</td> <td>500</td> </tr> <tr> <td>Cathepsin E</td> <td>Cysteine protease</td> <td>Passeris</td> <td>500</td> </tr> <tr> <td>Cathepsin F</td> <td>Cysteine protease</td> <td>Passeris</td> <td>500</td> </tr> <tr> <td>Cathepsin G</td> <td>Serine protease</td> <td>Stromboli</td> <td>500</td> </tr> <tr> <td>Cathepsin H</td> <td>Serine protease</td> <td>Stromboli</td> <td>500</td> </tr> <tr> <td>Cathepsin I</td> <td>Cysteine protease</td> <td>Passeris</td> <td>500</td> </tr> <tr> <td>Cathepsin J</td> <td>Serine protease</td> <td>Stromboli</td> <td>500</td> </tr> <tr> <td>Cathepsin K</td> <td>Cysteine protease</td> <td>Stromboli</td> <td>500</td> </tr> <tr> <td>Cathepsin L</td> <td>Cysteine protease</td> <td>Stromboli</td> <td>500</td> </tr> <tr> <td>Cathepsin M</td> <td>Cysteine protease</td> <td>Stromboli</td> <td>500</td> </tr> <tr> <td>Cathepsin N</td> <td>Serine protease</td> <td>Stromboli</td> <td>500</td> </tr> <tr> <td>Cathepsin O</td> <td>Serine protease</td> <td>Stromboli</td> <td>500</td> </tr> </tbody> </table> <p>*500 assays are done after a 50 h incubation with 100 μg/ml of pNA-7851.</p>	Enzyme	Type	Source	Activity	Trypsin	Serine protease	Passeris	1000000	Chymotrypsin	Serine protease	Passeris	500	Cathepsin A	Serine protease	Passeris	500	Cathepsin B	Serine protease	Stromboli	50	Cathepsin C	Serine protease	Stromboli	200	Cathepsin D	Aspartic protease	Passeris	500	Cathepsin E	Cysteine protease	Passeris	500	Cathepsin F	Cysteine protease	Passeris	500	Cathepsin G	Serine protease	Stromboli	500	Cathepsin H	Serine protease	Stromboli	500	Cathepsin I	Cysteine protease	Passeris	500	Cathepsin J	Serine protease	Stromboli	500	Cathepsin K	Cysteine protease	Stromboli	500	Cathepsin L	Cysteine protease	Stromboli	500	Cathepsin M	Cysteine protease	Stromboli	500	Cathepsin N	Serine protease	Stromboli	500	Cathepsin O	Serine protease	Stromboli	500	<p>K2060</p> <p>Size: 10x25 units.</p> <p>Source: E. coli.</p> <p>Appearance: Lyophilized.</p> <p>Solubility: Reconstituted to 0.1 - 1 unit per μl in PBS or the Reaction Buffer for longer stability.</p>	<p>Caspase Colorimetric Substrate Set Plus</p> <p>Caspase Fluorometric Substrate Set Plus is composed of ready-to-use AFC-labeled substrates for Caspase-1, -2, -3, -5, -6, -8 and -9 of caspase family proteases. The kit is used to detect activities of members of caspase family proteases.</p> <p>Size: 7 x 25 assays.</p>	<p>K2146</p> <p>Sample type: Cell culture.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 400/505 nm).</p>
Enzyme	Type	Source	Activity																																																																								
Trypsin	Serine protease	Passeris	1000000																																																																								
Chymotrypsin	Serine protease	Passeris	500																																																																								
Cathepsin A	Serine protease	Passeris	500																																																																								
Cathepsin B	Serine protease	Stromboli	50																																																																								
Cathepsin C	Serine protease	Stromboli	200																																																																								
Cathepsin D	Aspartic protease	Passeris	500																																																																								
Cathepsin E	Cysteine protease	Passeris	500																																																																								
Cathepsin F	Cysteine protease	Passeris	500																																																																								
Cathepsin G	Serine protease	Stromboli	500																																																																								
Cathepsin H	Serine protease	Stromboli	500																																																																								
Cathepsin I	Cysteine protease	Passeris	500																																																																								
Cathepsin J	Serine protease	Stromboli	500																																																																								
Cathepsin K	Cysteine protease	Stromboli	500																																																																								
Cathepsin L	Cysteine protease	Stromboli	500																																																																								
Cathepsin M	Cysteine protease	Stromboli	500																																																																								
Cathepsin N	Serine protease	Stromboli	500																																																																								
Cathepsin O	Serine protease	Stromboli	500																																																																								
<p>Active Human Caspases Group III</p> <p>Active Human Caspases Group III are recombinant caspases that expressed in E.coli and routinely tested for their ability to enzymatically cleave the substrate VEID-pNA (for Caspase-6), IETD-pNA (for Caspase-8 & -10) and LEHD-pNA (for Caspase-9), respectively.</p>  <p>The purified proteins was subjected to active caspase cleavage addition of 1 unit of purified active Caspase-1, -2, -3, -6, -7, -8, -9, and -10 (Active Human Caspases Group III Kit).</p>	<p>K2063</p> <p>Size: 4x25 units.</p> <p>Source: E. coli.</p> <p>Appearance: Lyophilized.</p> <p>Solubility: Reconstitute to 1 unit per μl in PBS containing 15% glycerol.</p>	<p>Caspase Colorimetric Substrate Set Plus</p> <p>Caspase Colorimetric Substrate Set Plus is used to assay activity of caspase family proteases.</p> <p>Size: 7 x 25 assays.</p>	<p>K2147</p> <p>Sample type: Cell culture.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (400 or 405 nm).</p>																																																																								
<p>Caspase Fluorometric Substrate Set II Plus</p> <p>Caspase Fluorometric Substrate Set II Plus is composed of ready-to-use AFC-labeled substrates for Caspase-1, -2, -3/7, -4, -5, -6, -8, -9 and -10 of caspase family proteases. The kit is used to detect activities of members of caspase family proteases.</p>  <p>Activities of major caspases in HL-60 cells after CSME treatment relative to those of untreated cells in the control.</p>	<p>K2148</p> <p>Size: 9 x 25 assays.</p> <p>Sample type: Cell culture.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (400 or 405 nm).</p>																																																																										

Caspase Colorimetric Substrate Set II Plus	K2149	Caspase-2 Inhibitor Drug Screening Kit	K2158
<p>Caspase Colorimetric Substrate Set II Plus is composed of ready-to-use pNA-labeled substrates for Caspase-1, -2, -3, -4, -5, -6, -8, -9 and -10 of caspase family proteases. The kit is used to detect activities of members of caspase family proteases.</p> <p>A.</p>  <p>B.</p>  <p>Assessment of the cytosolic caspase activity of <i>C. parvum</i>-infected HCT-8 cells.</p>	<p>Size: 9 x 25 assays.</p> <p>Sample type: Cell culture.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Flow Absorbance (400 or 405 nm).</p>	<p>The Caspase-2 Inhibitor Drug Screening Kit (Fluorometric) provides a simple, fast and convenient way for screening of Caspase-2 inhibitors based on fluorometric method.</p> <p>Size: 100 assays.</p>	<p>Sample type: Cell samples treated with caspase inhibitor drugs.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 400/505 nm).</p>
Caspase-12 Fluorometric Kit	K2150	Caspase-3 Inhibitor Drug Screening Kit	K2159
<p>The Caspase-12 Fluorometric Assay Kit provides a highly sensitive, simple and convenient way for detecting the ATAD-dependent caspase activity based on detection of cleavage of substrate ATAD-AFC.</p> <p>Size: 25 assays, 100 assays.</p>	<p>Sample type: Cell culture.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 400/505 nm).</p>	<p>The Caspase-3 Inhibitor Drug Screening Kit (Fluorometric) provides a simple, fast and convenient way for screening of Caspase-3 inhibitors based on fluorometric method.</p> <p>Size: 100 assays.</p>	<p>Sample type: Cell samples treated with caspase inhibitor drugs.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 400/505 nm).</p>
Caspase-1 Inhibitor Drug Screening Kit	K2157	Caspase-4 Inhibitor Drug Screening Kit	K2160
<p>The Caspase-1 Inhibitor Drug Screening Kit (Fluorometric) provides a simple, fast and convenient way for screening of Caspase-1 inhibitors based on fluorometric method.</p> <p>Size: 100 assays.</p>	<p>Sample type: Cell samples treated with caspase inhibitor drugs.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 400/505 nm).</p>	<p>The Caspase-4 Inhibitor Drug Screening Kit (Fluorometric) provides a simple, fast and convenient way for screening of Caspase-4 inhibitors based on fluorometric method.</p> <p>Size: 100 assays.</p>	<p>Sample type: Cell samples treated with caspase inhibitor drugs.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 400/505 nm).</p>
Caspase-5 Inhibitor Drug Screening Kit	K2161	Caspase-6 Inhibitor Drug Screening Kit	K2162
<p>The Caspase-5 Inhibitor Drug Screening Kit (Fluorometric) provides a simple, fast and convenient way for screening of Caspase-5 inhibitors based on fluorometric method.</p> <p>Size: 100 assays.</p>	<p>Sample type: Cell samples treated with caspase inhibitor drugs.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 400/505 nm).</p>	<p>The Caspase-6 Inhibitor Drug Screening Kit (Fluorometric) provides a simple, fast and convenient way for screening of Caspase-6 inhibitors based on fluorometric method.</p> <p>Size: 100 assays.</p>	<p>Sample type: Cell samples treated with caspase inhibitor drugs.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 400/505 nm).</p>

Caspase-7 Inhibitor Drug Screening Kit	K2163	Caspase-5 Fluorometric Assay Kit	K2195
<p>The Caspase-7 Inhibitor Drug Screening Kit (Fluorometric) provides a simple, fast and convenient way for screening of Caspase-7 inhibitors based on fluorometric method.</p> <p>Size: 100 assays.</p>	<p>Sample type: Cell samples treated with caspase inhibitor drugs.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 400/505 nm).</p>	<p>The Caspase-5 Fluorometric Assay Kit provides a fast and convenient means to assay the activity of Caspase-5 and other related caspases. These caspases can recognize the sequence WEHD.</p> <p>Size: 25 assays, 100 assays, 200 assays, 400 assays.</p>	<p>Sample type: Cell and tissue lysates.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 400/505 nm).</p>
Caspase-8 Inhibitor Drug Screening Kit	K2164	Caspase-5 Colorimetric Assay Kit	K2196
<p>The Caspase-8 Inhibitor Drug Screening Kit (Fluorometric) provides a simple, fast and convenient way for screening of Caspase-8 inhibitors based on fluorometric method.</p> <p>Size: 100 assays.</p>	<p>Sample type: Cell samples treated with caspase inhibitor drugs.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 400/505 nm).</p>	<p>The Caspase-5 Colorimetric Assay Kit provides a fast and convenient means for assaying the activity of Caspase-5 and other related caspases. These caspases can recognize the sequence WEHD.</p> <p>Size: 25 assays, 100 assays, 200 assays, 400 assays.</p>	<p>Sample type: Cell and tissue lysates.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (400 or 405 nm).</p>
Caspase-9 Inhibitor Drug Screening Kit	K2165	Caspase-4 Colorimetric Assay Kit	K2199
<p>The Caspase-9 Inhibitor Drug Screening Kit (Fluorometric) provides a simple, fast and convenient way for screening of Caspase-9 inhibitors based on fluorometric method.</p> <p>Size: 100 assays.</p>	<p>Sample type: Cell samples treated with caspase inhibitor drugs.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 400/505 nm).</p>	<p>The Caspase-4 Fluorometric Assay Kit provides a fast and simple means to assay the activity of caspases that recognize the sequence LEVD.</p> <p>Size: 25 assays, 100 assays, 200 assays, 400 assays.</p>	<p>Sample type: Cell and tissue lysates.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (400 or 405 nm).</p>
Caspase-10 Inhibitor Drug Screening Kit	K2166	Caspase Colorimetric Substrate Set	K2203
<p>The Caspase-10 Inhibitor Drug Screening Kit (Fluorometric) provides a simple, fast and convenient way for screening of Caspase-10 inhibitors based on fluorometric method.</p> <p>Size: 100 assays.</p>	<p>Sample type: Cell samples treated with caspase inhibitor drugs.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 400/505 nm).</p>	<p>Caspase Colorimetric Substrate Set is ready-to-use for members of caspase family proteases.</p>  <p>Size: 7 x 25 assays.</p>	<p>Sample type: Cell culture.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (400 or 405 nm).</p>
Caspase-10 Colorimetric Assay Kit	K2197	<p>Caspase activities of IPTG-treated RHO cells were analyzed by Caspase Colorimetric Substrate Set.</p>	
<p>The Caspase-10 Colorimetric Assay Kit provides a fast and simple means for assaying the activity of caspases that recognize the sequence AEVD.</p> <p>Size: 25 assays, 100 assays, 200 assays, 400 assays.</p>	<p>Sample type: Cell and tissue lysates.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (400 or 405 nm).</p>		

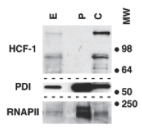
Caspase-4 Fluorometric Assay Kit	K2198
The Caspase-4 Fluorometric Assay Kit provides a fast and simple means to assay the activity of caspases that recognize the sequence LEVD.	Sample type: Cell and tissue lysates.
Size: 25 assays, 100 assays, 200 assays, 400 assays.	Species reactivity: Mammalian.
	Detection method: Fluorescence (Ex/Em = 400/505 nm).

Cathepsin K Activity Fluorometric Assay Kit	K2152
The Cathepsin K Activity Fluorometric Assay Kit provides a sensitive, simple and convenient way for detection of Cathepsin K activity based on fluorometric method.	Size: 100 assays.
	Sample type: Cell and tissue lysates.
	Species reactivity: Mammalian.
	Detection method: Fluorescence (Ex/Em = 400/505 nm).



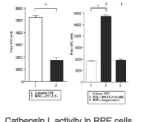
Protein preparation related

Cytosol/Particulate Separation Kit	K2112
The Cytosol/Particulate Rapid Separation Kit separates cytosol from particulate compartments rapidly through an oil layer to avoid the contact or diffusion of two fractions.	Size: 50 assays.
	Sample type: Cell culture (adherent and suspension), fresh and frozen tissues.
	Species reactivity: Mammalian.



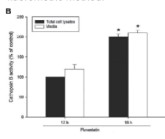
Cultures of DRG neurons were fractionated by Cytosol/Particulate Separation Kit.

Cathepsin L Activity Fluorometric Assay Kit	K2153
The Cathepsin L Activity Fluorometric Assay Kit provides a sensitive, simple and convenient way for detection of Cathepsin L activity based on fluorometric method.	Size: 100 assays.
	Sample type: Cell and tissue lysates.
	Species reactivity: Mammalian.
	Detection method: Fluorescence (Ex/Em = 400/505 nm).



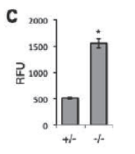
Cathepsin Related

Cathepsin B Activity Fluorometric Assay Kit	K2151
The Cathepsin B Activity Fluorometric Assay Kit provides a sensitive, simple and convenient way for detection of Cathepsin B activity based on fluorometric method.	Size: 100 assays.
	Sample type: Cell and tissue lysates.
	Species reactivity: Mammalian.
	Detection method: Fluorescence (Ex/Em = 400/505 nm) and fluorometer.

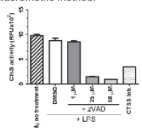
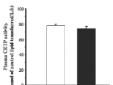


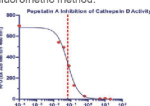
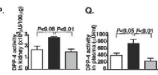
Cathepsin B activities in cell lysates and media supernatants.

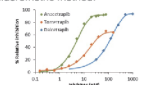
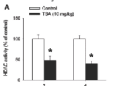
Cathepsin D Activity Fluorometric Assay Kit	K2154
The Cathepsin D Activity Fluorometric Assay Kit provides a sensitive, simple and convenient way for detection of Cathepsin D activity based on fluorometric method.	Size: 100 assays.
	Sample type: Cell and tissue lysates.
	Species reactivity: Mammalian.
	Detection method: Fluorescence (Ex/Em = 328/460 nm).



Cathepsin D (CTSD) activity was assayed using homogenates (250 ng of protein) from the cerebral cortex of 21-day-old Nestin-foxo1lox (-/-) and Nestin-foxo1wt (+/-) mice.

Cathepsin S Activity Fluorometric Assay Kit	K2155	CETP Activity Fluorometric Assay Kit	K2089
<p>The Cathepsin S Activity Fluorometric Assay Kit provides a sensitive, simple and convenient way for detection of Cathepsin S activity based on fluorometric method.</p>  <p>Cathepsin S (CTSS) activity in Macrophages.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue lysates.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 400/505 nm).</p>	<p>The CETP Activity Fluorometric Assay Kit provides a simple and convenient way for detection of CETP activity in various samples based on fluorometric method.</p>  <p>CETP activity in haemodialysis-dependent end-stage renal disease (ESRD) patients.</p>	<p>Size: 100 assays.</p> <p>Sample type: Animal serum, plasma and recombinant protein.</p> <p>Species reactivity: N/A.</p> <p>Detection method: Fluorescence (Ex/Em = 480/511 nm).</p>

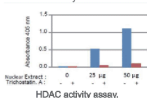
DPP4 Related			
Cathepsin D Inhibitor Screening Kit	K2156	DPP4 Activity Fluorometric Assay Kit	K2178
<p>The Cathepsin D Inhibitor Screening Kit (Fluorometric) provides a simple, fast and convenient way for screening of Cathepsin D inhibitors based on fluorometric method.</p>  <p>Typical Pepstatin A Inhibition Profile of Cathepsin D Activity.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue lysates.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 328/460 nm).</p>	<p>The DPP4 Activity Fluorometric Assay kit provides a fast, selective and robust way for high throughput activity screening of DPP4.</p>  <p>DPP4 activity measurements in kidney (P) and plasma (Q) were analyzed by DPP4 Activity Fluorometric Assay Kit.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture lysates, plasma, serum, other biological fluids, cell culture medium, etc.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 360/460 nm).</p>

CETP Related		HDAC Related	
CETP Inhibitor Drug Screening Kit	K2088	HDAC Activity Fluorometric Assay Kit	K2031
<p>The CETP Inhibitor Drug Screening Kit (Fluorometric) provides a sensitive, simple and convenient way for screening of CETP inhibitors in various biological fluids based on fluorometric method.</p>  <p>Semi-log plot using best fit 4-parameter regression to compare inhibition of Enriched Human CETP by Anacetrapib, Torcetrapib and Delcatrapib.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma, serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 480/511 nm).</p>	<p>The HDAC Activity Fluorometric Assay Kit provides a fast and convenient way for detection of HDAC activity based on fluorescence method that eliminates radioactivity, chromatography or extractions in traditional assays.</p>  <p>Treatment of rats with Trichostatin A (TSA) reduces HDAC activity in skeletal muscle.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell lysate, nuclear extract.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 350 - 380/440 - 460 nm).</p>

HDAC Activity Colorimetric Assay Kit

K2032

The HDAC Activity Colorimetric Assay Kit provides a fast and convenient way for detection of HDAC activity based on colorimetric method that eliminates radioactivity, chromatography or extractions in traditional assays.



Size: 100 assays.

Sample type:
Cell lysate, nuclear extract.

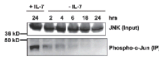
Species reactivity:
Mammalian.

Detection method:
Absorbance (400 or 405 nm).

KinaseSTAR JNK Activity Assay Kit

K2079

The KinaseSTAR JNK Activity Assay Kit provides a specific and simple way for detection of JNK activity based on Western Blot method.



IL-7 signaling induces JNK activity.

Size: 40 assays.

Sample type:
Cell and tissue lysates.

Species reactivity:
Mammalian.

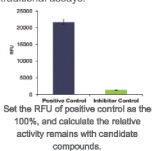
Detection method: Western blot analysis with anti-Phospho-c Jun (Ser 73) Specific Antibody at 1:1000 dilutions.

Proteasome Related

HDAC Inhibitor Drug Screening Kit

K2038

The HDAC Inhibitor Drug Screening Kit (Fluorometric) provides a fast and convenient way for screening of compounds for HDAC inhibition by detecting HDAC activity based on fluorescence method that eliminates radioactivity, chromatography or extractions in traditional assays.



Size: 100 assays.

Sample type:
Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids.

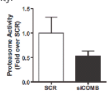
Species reactivity:
Mammalian.

Detection method:
Fluorescence (Ex/Em = 350 - 380/440 - 480 nm).

Proteasome Activity Fluorometric Assay Kit

K2096

The Proteasome Activity Assay utilized the chymotrypsin-like activity with an AMC-tagged peptide substrate that releases free, highly fluorescent AMC in the presence of proteolytic activity.



Silencing of the proteasome 20S subunits in combination (siCOMB) moderately reduces proteasome activity compared with the control.

Size: 100 assays.

Sample type:
Whole cell lysates, nuclear and cytoplasmic lysates.

Species reactivity:
Mammalian.

Detection method:
Fluorescence (Ex/Em = 350/440 nm).

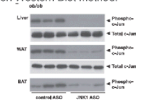
Apoptosis Related

JNK Related

KinaseSTAR JNK Activity Screening Kit

K2078

The KinaseSTAR JNK Activity Screening Kit provides a simple and convenient way for screening of JNK activity based on Western Blot method.



Reduction of JNK1 mRNA levels results in similar degree of reduction in JNK1 activity.

Size: 40 assays.

Sample type:
Cell and tissue lysates.

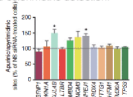
Species reactivity:
Mammalian.

Detection method: Western blot analysis with anti-Phospho-cJun (Ser 73) Specific Antibody at 1:1000 dilutions.

DNA Damage Quantification Colorimetric Kit

K2100

The kit utilizes the ARP (Aldehyde Reactive Probe) reagent that reacts with aldehyde group of the AP sites. Biotin residues are tagged onto the AP sites. The biotin-tagged AP sites can be quantified by avidin-biotin assay and colorimetric detection.



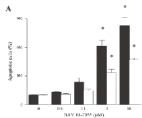
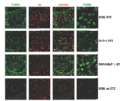
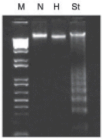
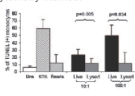
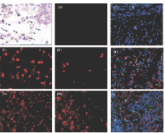
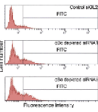
Increased levels of DNA damage determined by quantification of AP sites.

Size: 25 assays.

Sample type: N/A.

Species reactivity:
Mammalian.

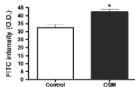
Detection method:
Absorbance (450 and 650 nm).

<h3>Quick Apoptotic DNA Ladder Detection Kit</h3>	K2194	<h3>Apo-BrdU DNA Fragmentation Assay Kit</h3>	K2070
<p>DNA fragmentation in apoptotic cells can be detected easily and sensitively by the Quick Apoptotic DNA Ladder Detection Kit.</p>  <p>Effect of BAY 11-7085 on apoptosis of ECSCs and NESCs.</p>	<p>Size: 50 assays.</p> <p>Sample type: Cells.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Agarose gel with ethidium bromide.</p>	<p>The BrdU In Situ DNA Fragmentation Assay Kit provides a simple and convenient way for detection of DNA fragmentation in biological samples based on fluorescence microscopy or flow cytometry method.</p>  <p>The mTOR-HIF pathway mediates effects of GLP-1 on islet cell viability.</p>	<p>Size: 60 assays.</p> <p>Sample type: Cell culture (adherent and suspension), paraffin embedded tissue sections.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Flow cytometry (Ex/Em = 488/520 nm for FITC, and 488/623 nm for PI) and fluorescence microscopy (FITC and rhodamine filters).</p>
<h3>Enhanced Apoptotic DNA Ladder Detection Kit</h3>	K2202	<h3>ApoBrdU Red DNA Fragmentation Kit</h3>	K2073
<p>The Enhanced Apoptotic DNA Ladder Detection Kit provides a sensitive and easy means for detecting DNA fragmentation in apoptotic cells.</p>  <p>No apoptosis during transient hypoxia.</p>	<p>Size: 50 assays.</p> <p>Sample type: DNA from all cell types and tissues undergoing apoptosis.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Agarose gel electrophoresis.</p>	<p>The Apo-BrdU Red DNA Fragmentation Kit provides a simple and convenient way for detection of DNA fragmentation in fixed cell preparations or tissue sections based on fluorescence microscopy or flow cytometry method.</p>  <p>Live <i>B. burgdorferi</i> induces DNA fragmentation predominantly in monocytes containing spirochetes.</p>	<p>Size: 60 assays.</p> <p>Sample type: Tissue sections and fixed cell preparations.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Flow cytometry (Ex/Em = 488/576 nm for BrdU-Red and 488/655 nm for 7-AAD).</p>
<h3>ApoBrdU-IHC DNA Fragmentation Assay Kit</h3>	K2072	<h3>ApoDIRECT DNA Fragmentation Assay Kit</h3>	K2071
<p>The ApoBrdU-IHC DNA Fragmentation Assay Kit provides a simple and convenient way for detection of DNA fragmentation in fixed cell preparations or tissue sections based on immunohistochemistry method.</p>  <p>Apoptosis during EAAU.</p>	<p>Size: 50 assays.</p> <p>Sample type: Tissue sections and fixed cell preparations.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Immunohistochemistry.</p>	<p>The ApoDIRECT DNA Fragmentation Assay Kit provides a simple and convenient way for detection of DNA fragmentation in biological samples based on fluorescence microscopy or flow cytometry method.</p>  <p>Antiapoptotic effects of αB-crystallin were assessed by flow cytometry.</p>	<p>Size: 50 assays.</p> <p>Sample type: Cell culture (adherent and suspension).</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Flow cytometry (Ex/Em = 488/520 nm for FITC, and 488/623 nm for PI) and fluorescence microscopy (FITC and Rhodamine filters).</p>

Annexin V-Biotin Apoptosis Kit

K2009

The Annexin V-Biotin Apoptosis Detection Kit uses a fluorescent conjugate of Annexin V that can easily detect PS on the cell surface after initiating apoptosis.



Apoptosis assays in MCF-7 cells stimulated with oncostatin M (OSM).

Size: 25 assays, 100 assays, 400 assays.

Sample type: Living cells (suspension and adherent).

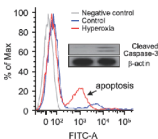
Species reactivity: Mammalian.

Detection method: Flow cytometry (Ex/Em = 488/530 nm) and fluorescence microscopy.

Annexin V-FITC Apoptosis Assay Kit

K2203

The Annexin V-FITC Apoptosis Detection Kit uses a fluorescent conjugate of Annexin V that can easily detect PS on the cell surface after initiating apoptosis.



Effect of LC3B in hyperoxia-induced epithelial cell apoptosis.

Size: 25 assays, 100 assays, 400 assays.

Sample type: Living cells (suspension and adherent).

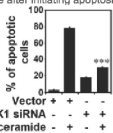
Species reactivity: Mammalian.

Detection method: Flow cytometry (Ex/Em = 488/530 nm) and fluorescence microscopy.

Annexin V-PE Apoptosis Detection Kit

K2200

The Annexin V-PE Apoptosis Detection Kit uses a fluorescent conjugate of Annexin V that can easily detect PS on the cell surface after initiating apoptosis.



Cell apoptosis were measured by the Annexin V-PE Apoptosis Detection Kit.

Size: 25 assays, 100 assays, 400 assays.

Sample type: Living cells.

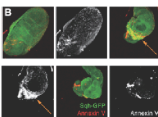
Species reactivity: Mammalian.

Detection method: Flow cytometry (Ex/Em = 488/578 nm) and fluorescence microscopy.

Annexin V-Cy3 Apoptosis Assay Kit

K2204

The Annexin V-Cy3 Apoptosis Detection Kit uses a fluorescent conjugate of Annexin V that can easily detect PS on the cell surface after initiating apoptosis.



Further applications of ex vivo culture.

Size: 25 assays, 100 assays, 400 assays.

Sample type: Living cells (suspension and adherent).

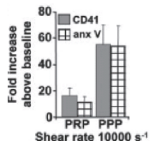
Species reactivity: Mammalian.

Detection method: Flow cytometry (Ex/Em = 543/570 nm) and fluorescence microscopy.

Annexin V-PE-Cy5 Apoptosis Detection

K2201

The Annexin V-PE-Cy5 Apoptosis Detection uses a fluorescent conjugate of Annexin V that can easily detect PS on the cell surface after initiating apoptosis.



The number of microparticles positive for CD41 was measured by Annexin V binding.

Size: 25 assays, 100 assays, 400 assays.

Sample type: Living cells.

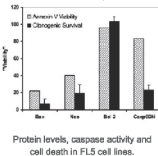
Species reactivity: Mammalian.

Detection method: Flow cytometry (Ex/Em = 488/670 nm) and fluorescence microscopy.

Annexin V-Cy5 Apoptosis Assay Kit

K2205

The Annexin V-Cy5 Apoptosis Detection Kit uses a fluorescent conjugate of Annexin V that can easily detect PS on the cell surface after initiating apoptosis.



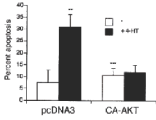
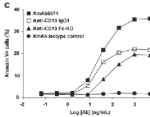
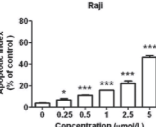

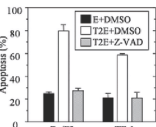
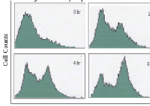
Protein levels, caspase activity and cell death in FL5 cell lines.

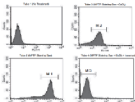
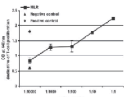
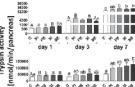
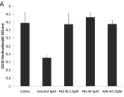
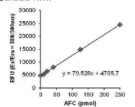
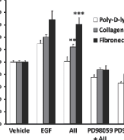
Size: 25 assays, 100 assays, 400 assays.

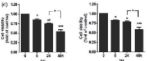
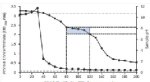
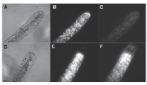
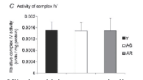
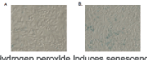
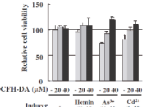
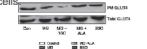
Sample type: Living cells (suspension and adherent).

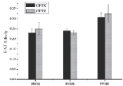
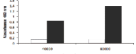
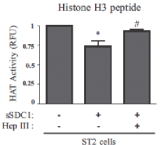
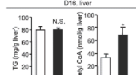
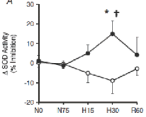

Species reactivity: Mammalian.

Detection method: Flow cytometry (Ex/Em = 649/670 nm) and fluorescence microscopy.

<p>Annexin V-EGFP Apoptosis Kit</p> <p>The Annexin V-EGFP Apoptosis Kit uses an EGFP fusion of annexin V that can easily detect PS on the cell surface after initiating apoptosis.</p>  <p>Akt inhibits 4-HT-induced apoptosis.</p>	<p>K2006</p> <p>Size: 25 assays, 100 assays, 400 assays.</p> <p>Sample type: Living cells (suspension and adherent).</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Flow cytometry (Ex/Em = 488/530 nm) and fluorescence microscopy.</p>	<p>Annexin V-PE Apoptosis Kit Plus</p> <p>The Annexin V-PE Apoptosis Kit Plus uses a fluorescent conjugate of Annexin V that can easily detect PS on the cell surface after initiating apoptosis.</p>  <p>Apoptosis was assayed by Annexin V-PE Apoptosis Kit Plus and fluorescence was analyzed by flow cytometry.</p>	<p>K2059</p> <p>Size: 25 assays, 100 assays, 400 assays.</p> <p>Sample type: Living cells.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Flow cytometry using FL1 channel for SYTOX Green dye (Ex/Em = 488/530 nm) and FL2 channel for Annexin V-PE (Ex /Em = 488/578 nm).</p>
<p>Annexin V-FITC Apoptosis Kit Plus</p> <p>The Annexin V-FITC Apoptosis Kit Plus uses a fluorescent conjugate of Annexin V that can easily detect PS on the cell surface after initiating apoptosis.</p>  <p>Apoptosis of Raji cells exposed to different concentrations of Japonicone A.</p>	<p>K2057</p> <p>Size: 25 assays, 100 assays, 400 assays.</p> <p>Sample type: Living cells.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Flow cytometry (Ex/Em = 488/530 nm).</p>	<p>Cytochrome c Apoptosis Assay Kit</p> <p>The Cytochrome c Releasing Apoptosis Assay Kit gives an efficient way for sensing cytochrome c releasing from mitochondria into cytosol under apoptosis.</p>  <p>Mitochondrial and cytoplasmic fractionation was isolated by the Cytochrome c Releasing Apoptosis Assay Kit.</p>	<p>K2104</p> <p>Size: 100 assays.</p> <p>Sample type: Cells and tissues.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Western blotting.</p>
<p>Annexin V-Cy3 Apoptosis Kit Plus</p> <p>The Annexin V-Cy3 Apoptosis Kit Plus uses a fluorescent conjugate of Annexin V that can easily detect PS on the cell surface after initiating apoptosis.</p>  <p>T2E-induced apoptosis is blocked by Z-VAD-EMK.</p>	<p>K2058</p> <p>Size: 25 assays, 100 assays, 400 assays.</p> <p>Sample type: Living cells.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Flow cytometry (Ex/Em = 543/570 nm).</p>	<p>Mitochondrial Apoptosis Detection Fluorometric Kit</p> <p>The Mitochondrial Apoptosis Detection Fluorometric Kit is an easy and fluorescent-based way for differentiating between healthy and apoptotic cells.</p>  <p>Mitochondrial Apoptosis Detection Fluorometric Kit effectively detects disruption of mitochondrial transmembrane potential in apoptotic cells.</p>	<p>K2097</p> <p>Size: 25 assays, 100 assays.</p> <p>Sample type: Living cells.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence microscopy and Flow cytometry: FITC (Ex/Em = 488/530 ± 30 nm); and (optional) PI (Em. = 488/590 ± 42 nm).</p>

Mitochondrial Permeability Transition Pore Assay Kit	K2061	Cell Proliferation Related
<p>The Mitochondrial Permeability Transition Pore Assay Kit gives a direct method of measuring cell death by measuring MPTP opening.</p>  <p>Jurkat cells were incubated with the reagents of the Mitochondrial Permeability Transition Pore Assay Kit.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cells (adherent and suspension).</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Flow cytometry (Ex. = 488 nm).</p>	WST-1 Cell Proliferation Colorimetric Assay Kit <p>K2021</p> <p>The WST-1 Cell Proliferation Colorimetric Assay Kit provides a fast and sensitive way for quantification of cell proliferation and viability.</p>  <p>BM-derived CD11c+ cells are bonafide DC.</p> <p>Size: 500 assays, 2500 assays.</p> <p>Sample type: Cell culture (adherent and suspension).</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (420 - 480 nm).</p>
Trypsin Activity Colorimetric Assay Kit	K2176	WST Cell Proliferation Colorimetric Assay Kit plus <p>K2022</p>
<p>Trypsin is a serine protease that hydrolyses proteins in the digestive system of various vertebrates. Trypsin activity can be measured as the color intensity is proportional to p-NA content.</p>  <p>The influence of Prebiotics and Synbiotics on total activity of pancreatic trypsin measured by the Trypsin Activity Colorimetric Assay Kit.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (405 nm).</p>	<p>The WST Cell Proliferation Colorimetric Assay Kit plus provides the easiest and most sensitive way for quantification of cell proliferation and viability.</p>  <p>Effect of human recombinant AB1-42 on the proliferation of GL261 tumor cells.</p> <p>Size: 500 assays, 2500 assays.</p> <p>Sample type: Cell culture (adherent and suspension).</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (420 - 480 nm).</p>
Granzyme B Activity Fluorometric Assay Kit	K2001	ApexBlue™ Quick Cell Viability Fluorometric Assay Kit <p>K2023</p>
<p>The Granzyme B Activity Assay Kit can be used in different biological samples, it hydrolyzes the specific substrate to release the quenched fluorescent group, which can be detected fluorometrically at Ex/Em = 380/500 nm.</p>  <p>Figure: AFC Standard Curve.</p> <p>The activity of Granzyme B was calculated in the test sample.</p>	<p>Size: 100 assays.</p> <p>Sample type: N/A.</p> <p>Species reactivity: N/A.</p> <p>Detection method: Fluorescence (Ex/Em = 380/500 nm).</p>	<p>The ApexBlue™ Quick Cell Viability Fluorometric Assay Kit provides the easiest and most sensitive way for quantification of cell proliferation and viability.</p>  <p>All-induced proliferation of VSMC is dependant on integrin-mediated adhesion and ERK activity.</p> <p>Size: 500 assays, 2500 assays.</p> <p>Sample type: Cell culture (adherent and suspension).</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 530 - 570/590 - 620 nm).</p>

Ready-to-use Cell Proliferation Reagent, WST-1	K2024	Deproteinizing Sample Preparation Kit	K2184
<p>The ready-to-use cell proliferation reagent, WST-1 provides an accurate and simple way for quantification of cell proliferation.</p>  <p>TG and TM causes cell death.</p>	<p>Size: 2500 assays.</p> <p>Sample type: Cell culture (adherent and suspension).</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (440 nm).</p>	<p>The Deproteinizing Sample Preparation Kit applies a PCA precipitation method, offers a special tool for sample preparation in various small molecules.</p>  <p>Deproteinization of serum samples.</p>	<p>Size: 200 assays.</p> <p>Sample type: Cell and tissue culture homogenates (eukaryotic cells), serum, plasma and high protein samples.</p> <p>Species reactivity: Mammalian.</p>
Live-Dead Cell Staining Kit	K2081	Metabolism Assay Related	
<p>The Live-Dead Cell Staining Kit provides a fast and convenient way for discrimination between live and dead cells in cell culture based on fluorometric method.</p>  <p>Bright-field and fluorescent micrographs of stolon tips from colonies of <i>P. carnea</i>.</p>	<p>Size: 100 stainings.</p> <p>Sample type: Cell culture (adherent and suspension cells).</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescent microscopy (Ex/Em = 488/518 nm) to detect stains Living cells; (Ex/Em = 488/615 nm) to detect stained dead cells.</p>	Cytochrome Oxidase Activity Colorimetric Assay Kit	K2020
Senescence Detection Kit	K2030	<p>The Cytochrome Oxidase Activity Colorimetric Assay Kit is fast, simple and high-throughput adaptable. This assay kit can be used for cells and tissue extracts containing mitochondria or purified mitochondria.</p>  <p>Mitochondrial energy production machinery unchanged with aging and resveratrol treatment in the heart.</p>	<p>Size: 100 assays.</p> <p>Sample type: Purified mitochondria. Cells/tissue extracts.</p>
<p>The Senescence Detection Kit provides a fast and convenient way for detection of senescence based on histochemical detection of SA-β-Gal activity in cultured cells and tissues.</p>  <p>Hydrogen peroxide induces senescence in HeLa cells.</p>	<p>Size: 250 stainings.</p> <p>Sample type: Cultured cells, tissues.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Histochemical.</p>	LDH-Cytotoxicity Colorimetric Assay Kit	K2025
Cell Fractionation Related		<p>The LDH-Cytotoxicity Colorimetric Assay Kit provides a simple and fast way for the quantification of cytotoxicity based on the measurement of activity of LDH released from damaged cells.</p>  <p>The protection of HeLa cells from the cell toxicity of hemin, arsenite and cadmium by treatment with DCFH-DA.</p>	<p>Size: 400 assays.</p> <p>Sample type: Cell culture (adherent and suspension).</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (500 nm).</p>
Membrane Protein Extraction Kit	K2113	Kits	
<p>The Membrane Protein Extraction Kit contains optimized buffers and reagents for fast and convenient extraction of membrane proteins from mammalian tissues and cells.</p>  <p>Adipose tissue plasma membrane was isolated with the Membrane Protein Extraction Kit.</p>	<p>Size: 50 assays.</p> <p>Sample type: Cell culture (adherent and suspension), fresh and frozen tissues.</p> <p>Species reactivity: Mammalian.</p>		

AK Bioluminescence Cytotoxicity Assay Kit	K2026	HAT Activity Colorimetric Assay Kit	K2033
<p>The AK Bioluminescence Cytotoxicity Assay Kit provides a simple and fast way for the quantification of cytotoxicity based on the measurement of AK involving two chemical reactions.</p> <p>Size: 500 assays.</p>	<p>Sample type: Cell culture (adherent and suspension).</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Luminescence.</p>	<p>The HAT Activity Colorimetric Assay Kit provides a fast and sensitive way for detection of HAT activity in mammalian samples based on colorimetric method that eliminates radioactivity in traditional assays.</p>  <p>Global HAT activity from nuclear extract samples.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and Tissue lysates.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (440 nm).</p>
LDH-Cytotoxicity Colorimetric Assay Kit II	K2027	HAT Activity Fluorometric Assay Kit	K2034
<p>The LDH-Cytotoxicity Colorimetric Assay Kit II provides a simple and fast way for the quantification of cytotoxicity based on the measurement of activity of LDH released from damaged cells.</p>  <p>LDH Cytotoxicity Assay Kit II.</p>	<p>Size: 500 assays.</p> <p>Sample type: Cell culture (adherent and suspension).</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p>	<p>The HAT Activity Fluorometric Assay Kit provides a fast and sensitive way for detection of HAT activity in a variety of samples based on fluorometric method that eliminates radioactivity in traditional assays.</p> <p>Histone H3 peptide</p>  <p>Shed syndecan-1 downregulates histone acetyltransferase activity.</p>	<p>Size: 100 assays.</p> <p>Sample type: Nuclear extracts from cells and tissue. Recombinant enzyme.</p> <p>Detection method: Fluorescence (Ex/Em = 535/587 nm).</p>
Acetyl-CoA Fluorometric Assay Kit	K2028	Superoxide Dismutase (SOD) Activity Assay Kit	K2035
<p>The Acetyl-CoA Fluorometric Assay Kit provides a convenient and highly sensitive way for the quantification of Acetyl CoA level in variety of biological samples.</p>  <p>Parameter of lipid metabolism in D16 offspring.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 535/587 nm).</p>	<p>The Superoxide Dismutase (SOD) Activity Assay Kit provides a sensitive and convenient way for detection of SOD activity based on a colorimetric method in a variety of biological fluids.</p>  <p>Fetal plasma SOD activity.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p>
Citrate Synthase Activity Colorimetric Assay Kit	K2029		
<p>The Citrate Synthase Activity Colorimetric Assay Kit provides a simple and convenient way for the quantification of citrate synthase activity in a variety of biological samples.</p>  <p>Mitochondrial biogenesis and enzyme activation increase with inflammation adaptation.</p>	<p>Size: 100 assays.</p> <p>Sample type: Animal tissues: liver, heart, kidney, etc. Cell culture: Adherent or suspension cells. Purified mitochondria.</p> <p>Detection method: Absorbance (412 nm).</p>		

NAD/NADH Quantitation Colorimetric Kit

K2036

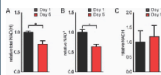
The NAD/NADH Quantitation Colorimetric Kit provides a sensitive and convenient way for detection of the intracellular nucleotides: NADH, NAD and their ratio.

Size: 100 assays.

Sample type:
Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids.

Species reactivity:
Mammalian.

Detection method:
Absorbance (450 nm).



NAD⁺ levels decrease during keratinocyte differentiation.

NADH Fluorometric Assay Kit

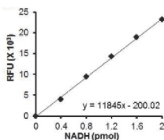
K2037

The NADH Fluorometric Assay Kit provides a highly sensitive and convenient way for detection of low level NADH in samples or in enzymatic reactions based on fluorescence method.

Size: 100 assays.

Sample type:
Animal tissues - liver, muscle, heart, etc. Cell culture: adherent or suspension cells. Enzymatic reactions.

Detection method:
Fluorescence (Ex/Em = 335/587 nm).



NADH standard curve.

ATP Colorimetric /Fluorometric Assay Kit

K2040

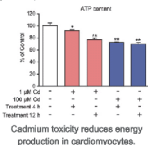
The ATP Colorimetric /Fluorometric Assay Kit provides a robust and simple way for detection of ATP in various samples based on the phosphorylation of glycerol to yield a product.

Size: 100 assays.

Sample type:
Cell and tissue lysates, culture media, as well as many other biological fluids.

Species reactivity: All.

Detection method:
Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).



Cadmium toxicity reduces energy production in cardiomyocytes.

Calpain Activity Fluorometric Assay Kit

K2062

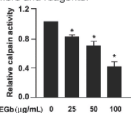
The Calpain Activity Assay Kit is a convenient way of measuring Calpain activity with optimized buffers and reagents.

Size: 100 assays.

Sample type:
Cell and tissue lysates.

Species reactivity:
Mammalian.

Detection method:
Fluorescence (Ex/Em = 400/505 nm).



Macrophages were treated with EGB761 and the Calpain activity was determined by Calpain Activity Fluorometric Assay Kit.

NADP/NADPH Quantitation Colorimetric Kit

K2039

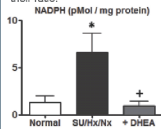
The NADP/NADPH Quantitation Colorimetric Kit provides a sensitive and convenient way for detection of the intracellular nucleotides: NADP, NADPH and their ratio.

Size: 100 assays.

Sample type:
Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids.

Species reactivity:
Mammalian.

Detection method:
Absorbance (450 nm).



Right ventricular (RV) tissue levels of NADPH in rats.

Phosphate Colorimetric Assay Kit

K2074

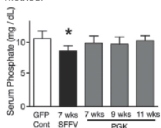
The Phosphate Colorimetric Assay Kit provides a simple, fast and sensitive way for detection of phosphate over a wide range of concentrations in various samples based on colorimetric method.

Size: 500 assays.

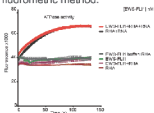
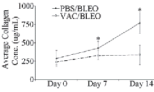
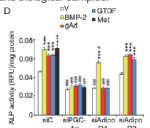
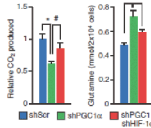
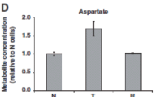
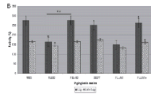
Sample type:
Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids, algal blooms and water from run-off areas of high fertilizer use.

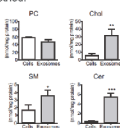
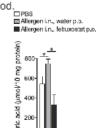
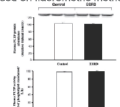
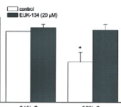
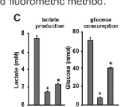
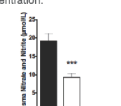
Species reactivity:
Mammalian.

Detection method:
Absorbance (650 nm).



PGK-PDGFB treatment does not significantly affect serum phosphate level.

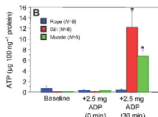
<p>Phosphate Assay Kit (Fluorometric)</p>	<p>K2076</p>	<p>Hydroxyproline Colorimetric Assay Kit</p>	<p>K2083</p>
<p>The Phosphate Assay Kit (Fluorometric) provides a highly sensitive, easy and fast way for detection of phosphate (Pi) over a wide range of concentrations in various samples based on fluorometric method.</p>  <p>EWS-FLI1 does not inhibit the ATPase activity of R-IA.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids, algal blooms and water from run-off areas of high fertilizer use.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 535/587 nm).</p>	<p>The Hydroxyproline Colorimetric Assay Kit provides a sensitive, simple and convenient way for detection of hydroxyproline in tissue or protein and peptide hydrolysates based on colorimetric method.</p>  <p>Total lung collagen concentration following Bleomycin administration.</p>	<p>Size: 100 assays.</p> <p>Sample type: Animal tissues, protein/peptide hydrolysates, serum, and urine.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (560 nm).</p>
<p>Alkaline Phosphatase Activity Fluorometric Assay Kit</p>	<p>K2077</p>	<p>Glutamine Colorimetric Assay Kit</p>	<p>K2084</p>
<p>The Alkaline Phosphatase Activity Fluorometric Assay Kit provides a highly sensitive and convenient way for detection of ALP activity based on fluorometric method in serum and biological samples.</p>  <p>GDF and Gd-mediated osteoblast differentiation is dependent on PGC-1α and AdipoR1 but not AdipoR2.</p>	<p>Size: 500 assays.</p> <p>Sample type: Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 360/440 nm).</p>	<p>The Glutamine Colorimetric Assay Kit provides a sensitive and simple way for detection of glutamine in various biological samples based on colorimetric method.</p>  <p>Glutamine utilization after PGC1α and HIF1α suppression.</p>	<p>Size: 100 assays.</p> <p>Sample type: Serum, plasma, urine or other biological fluids. Mammalian tissues: kidney, liver, brain samples, etc.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p>
<p>Aspartate Colorimetric /Fluorometric Assay Kit</p>	<p>K2082</p>	<p>Branched Chain Amino Acid (Leu/Ile/Val) Colorimetric Assay Kit</p>	<p>K2085</p>
<p>The Aspartate Colorimetric /Fluorometric Assay Kit provides a sensitive, simple and convenient way for detection of aspartate in a variety of samples based on colorimetric and fluorometric method.</p>  <p>Relative aspartate concentrations in N, T and R cell lines.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>	<p>The Branched Chain Amino Acid (Leu/Ile/Val) Colorimetric Assay Kit provides a sensitive, simple and convenient way for detection of BCAAs in various biological fluids based on colorimetric method.</p>  <p>Estimation of branched-chain amino acids (BCAAs) in <i>P. gingivalis</i> strains.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p>

Phosphatidylcholine Colorimetric/Fluorometric Assay Kit	K2086	Uric Acid Colorimetric /Fluorometric Assay Kit	K2093
<p>The Phosphatidylcholine Colorimetric/Fluorometric Assay Kit provides a sensitive, simple and convenient way for detection of phosphatidylcholine in various biological fluids based on colorimetric and fluorometric method.</p>  <p>Exosomal and cellular lipid analysis.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>	<p>The Uric Acid Colorimetric /Fluorometric Assay Kit provides a simple and convenient way for detection of uric acid in various biological samples such as serum and urine based on colorimetric and fluorometric method.</p>  <p>UA in lung homogenates were examined using ELISA by Uric Acid Colorimetric/Fluorometric Assay Kit.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>
PLTP Activity Fluorometric Assay Kit	K2087	Glutathione Fluorometric Assay Kit	K2098
<p>The PLTP Activity Fluorometric Assay Kit provides a simple and convenient way for detection of PLTP activity in various samples based on fluorometric method.</p>  <p>PLTP activity was measured by PLTP Activity Fluorometric Assay Kit.</p>	<p>Size: 100 assays.</p> <p>Sample type: Animal plasma (recommended) or serum. Recombinant protein.</p> <p>Detection method: Fluorescence (Ex/Em = 465/535 nm).</p>	<p>The Glutathione Fluorometric Assay Kit gives a simple in vitro assay for detecting total glutathione changes in apoptosis and other samples.</p>  <p>Primary rat alveolar epithelial cells were exposed to normoxia (21% O₂) or hyperoxia.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 380/461 nm).</p>
Lactate Colorimetric /Fluorometric Assay Kit	K2092	Nitric Oxide Fluorometric Assay Kit	K2099
<p>The Lactate Colorimetric /Fluorometric Assay Kit provides a sensitive, simple and convenient way for detection of lactate in various biological samples based on colorimetric and fluorometric method.</p>  <p>Lactate content in media was measured by Lactate Colorimetric/Fluorometric Assay Kit.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>	<p>The Nitric Oxide Fluorometric Assay kit is a simple and accurate two-step measurement of total nitrate and nitrite concentration.</p>  <p>Plasma was assayed for total nitrate and nitrite by Nitric Oxide Fluorometric Assay Kit.</p>	<p>Size: 200 assays.</p> <p>Sample type: Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 380/461 nm).</p>

ATP Cell Viability Bioluminescence Assay Kit

K2101

The ATP Cell Viability Bioluminescence Assay Kit detects ATP levels by bioluminescent for a fast screening of apoptosis and cell proliferation in mammalian cells.



The ATP concentration in the mitochondria from rope, gill and muscle tissues were determined by ATP cell viability assay kit.

Size: 200 assays, 1000 assays.

Sample type: Cell and tissue lysates, culture media, urine, soil, sludge, plasma and serum, as well as many other biological fluids.

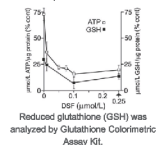
Species reactivity: Mammalian.

Detection method: Luminometer or Beta Counter.

Glutathione Colorimetric Assay Kit

K2106

The Glutathione Colorimetric Assay Kit provides an easy and colorimetric method for analyzing total glutathione or the reduced form of glutathione by a microtiter plate reader.



Size: 100 assays.

Sample type: Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids.

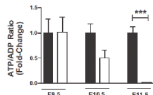
Species reactivity: Mammalian.

Detection method: Absorbance (412 nm).

ADP/ATP Ratio Bioluminescence Assay Kit

K2102

The ADP/ATP Ratio Assay Kit detects ATP and ADP levels by bioluminescent for a fast screening of apoptosis, necrosis, growth arrest, and cell proliferation simultaneously in mammalian cells.



ATP/ADP measurements in adrenergic-deficient embryos were performed by ADP/ATP Ratio Bioluminescence Assay Kit.

Size: 200 assays.

Sample type: Cell and tissue lysates, culture media, urine, soil, sludge, plasma and serum, as well as many other biological fluids.

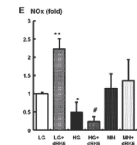
Species reactivity: Mammalian.

Detection method: Luminometer or Beta Counter.

Nitric Oxide Colorimetric Assay Kit

K2107

The Nitric Oxide Colorimetric Assay kit gives a fast and accurate two-step measurement of total nitrate and nitrite.



The effect of dRGK (arginine-rich anti-VEGF hexapeptide) on a nitrate/nitrite (NOx) in the HUVECs.

Size: 200 assays.

Sample type: Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids.

Species reactivity: Mammalian.

Detection method: Absorbance (540 nm).

GST Fluorometric Activity Assay Kit

K2105

The GST Fluorometric Activity Assay Kit provides a simple and fluorescence-based in vitro assay for detecting the GST activity using fluorescence plate reader.

Size: 100 assays.

Sample type: Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids.

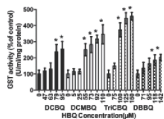
Species reactivity: Mammalian.

Detection method: Fluorescence (Ex/Em = 380/461 nm).

GST Colorimetric Activity Assay Kit

K2108

The GST Colorimetric Activity Assay Kit can detect GST activity in crude cell lysate, purified protein fraction and quantitate GST-tagged fusion protein.



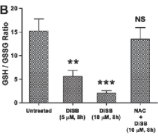
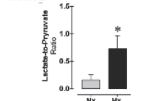
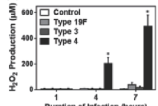
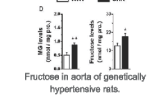
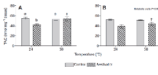
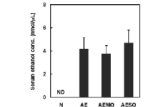
Effect of Halobenzoquinone compounds on cellular glutathione S-transferase (GST) activity.

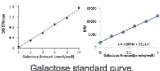
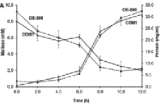
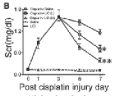
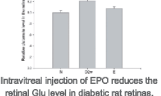
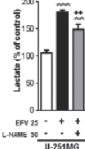
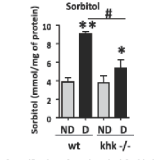
Size: 100 assays.

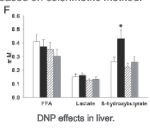
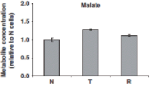
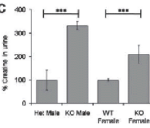
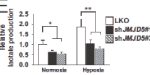
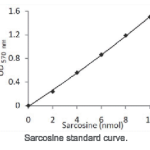
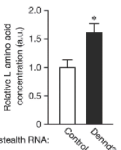
Sample type: Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids.

Species reactivity: Mammalian.

Detection method: Absorbance (380 nm).

<p>Glutathione (GSH/GSSG/Total) Fluorometric Assay Kit</p> <p>The Glutathione (GSH/GSSG/Total) Fluorometric Assay Kit gives a fast and convenient method for measuring GSH, GSSG and total glutathione separately.</p>  <p>Determination of intracellular GSH level and level of lipid per oxidation during treatment with 3-O₂, 28-O-disuccinyl betulin.</p>	<p>K2109</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 340/420 nm).</p>	<p>Pyruvate Colorimetric/Fluorometric Assay Kit</p> <p>The Pyruvate Colorimetric/Fluorometric Assay Kit provides a simple and convenient way for detection of pyruvate in various biological samples such as culture and fermentation media, blood and cells based on colorimetric and fluorometric method.</p>  <p>Exposure of PASM cells to hypoxia for 72 h increased lactate-to-pyruvate ratio.</p>	<p>K2119</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>
<p>Hydrogen Peroxide Assay Kit</p> <p>The Hydrogen Peroxide Assay Kit provides a sensitive, easy and direct way for measuring H₂O₂ in biological samples.</p>  <p><i>S. pneumoniae</i> produces genotoxic levels of H₂O₂.</p>	<p>K2110</p> <p>Size: 200 assays.</p> <p>Sample type: Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) and fluorescence (Ex/Em = 535/587 nm).</p>	<p>Fructose Colorimetric/Fluorometric Assay Kit</p> <p>The Fructose Colorimetric/Fluorometric Assay Kit provides a sensitive, fast and convenient way for detection of fructose in cell or tissue culture supernatants based on colorimetric and fluorometric method.</p>  <p>Fructose in aorta of genetically hypertensive rats.</p>	<p>K2124</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants (Not urine, plasma, serum).</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>
<p>Total Antioxidant Capacity (TAC) Colorimetric Assay Kit</p> <p>The Total Antioxidant Capacity (TAC) Colorimetric Assay Kit can measure both small molecule antioxidants and proteins in combination or small molecules alone with Protein Mask.</p>  <p>Total antioxidant capacity (TAC) of (A) gastrocnemius and (B) iliobifurcatus muscles in <i>Cylorana alboguttata</i>.</p>	<p>K2116</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm).</p>	<p>Ethanol Colorimetric/Fluorometric Assay Kit</p> <p>The Ethanol Colorimetric/Fluorometric Assay Kit provides a sensitive, fast and convenient way for detection of ethanol concentration in various biological samples such as plasma, serum, other body fluids, growth media, foods and beverages based on colorimetric and fluorometric method.</p>  <p>Effect of MO and sesame oil on serum ethanol concentration in adified ethanol-treated rats.</p>	<p>K2125</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>

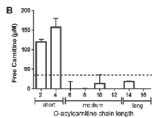
<p>Galactose Colorimetric /Fluorometric Assay Kit</p> <p>The Galactose Colorimetric /Fluorometric Assay Kit provides a sensitive, fast and convenient way for detection of galactose levels in various biological samples based on colorimetric and fluorometric method.</p>  <p>Galactose standard curve.</p>	<p>K2126</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>	<p>Maltose Colorimetric /Fluorometric Assay Kit</p> <p>The Maltose Colorimetric /Fluorometric Assay Kit provides a sensitive, fast and convenient way for detection of maltose in various biological samples based on colorimetric and fluorometric method.</p>  <p>Comparison of growth and maltose consumption by OE-SH1 and COM1 strains.</p>	<p>K2132</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>
<p>Creatinine Colorimetric /Fluorometric Assay Kit</p> <p>The Creatinine Colorimetric /Fluorometric Assay Kit provides a sensitive, fast and convenient way for accurate detection of creatinine levels in various biological fluids based on colorimetric and fluorometric method.</p>  <p>Serum creatinine levels decrease at a more rapid rate in Ciaplatin + LICI-treated mice compared with Ciaplatin + Saline-treated mice.</p>	<p>K2130</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>	<p>Glutamate Colorimetric Assay Kit</p> <p>The Glutamate Colorimetric Assay Kit provides a sensitive, fast and convenient way for detection of glutamate in various samples based on colorimetric method.</p>  <p>Intravitreal injection of EPO reduces the retinal Glu level in diabetic rat retinas.</p>	<p>K2133</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, monitoring glucose level during fermentation and feeding in protein expression processes.</p> <p>Species reactivity: All.</p> <p>Detection method: Absorbance (450 nm).</p>
<p>Lactate Colorimetric Assay Kit II</p> <p>The Lactate Colorimetric Assay Kit II provides a sensitive, simple and convenient way for detection of lactate in various biological samples based on colorimetric method.</p>  <p>Analysis of extra-cellular lactate levels in U-251MG cells.</p>	<p>K2131</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, monitoring level during fermentation and feeding in protein expression processes.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p>	<p>D-Sorbitol Colorimetric Assay Kit</p> <p>The D-Sorbitol Colorimetric Assay Kit provides a simple, fast and convenient way for detection of Sorbitol in various samples based on colorimetric method.</p>  <p>Quantification of renal cortical Sorbitol levels in all groups in nondiabetic and diabetic wild-type mice and khk-/- mice.</p>	<p>K2135</p> <p>Size: 100 assays.</p> <p>Sample type: Foods, fruits, fruit juices, pharmaceuticals, cosmetics and paper.</p> <p>Detection method: Absorbance (560 nm).</p>

<p>β-Hydroxybutyrate (β-HB) Colorimetric Assay Kit</p> <p>The β-Hydroxybutyrate (β-HB) Colorimetric Assay Kit provides a sensitive, fast and convenient way for detection of β-HB levels in various biological samples based on colorimetric method.</p>  <p>DNP effects in liver.</p>	<p>K2136</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p>	<p>Malate Colorimetric Assay Kit</p> <p>The Malate Colorimetric Assay Kit provides a sensitive, fast and convenient way for accurate detection of L-(-) Malate levels in various samples based on colorimetric method.</p>  <p>Relative metabolite concentrations in N, T and R cell lines.</p>	<p>K2139</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, food, fruits, cheese, beer and wine samples.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p>
<p>Creatine Colorimetric /Fluorometric Assay Kit</p> <p>The Creatine Colorimetric /Fluorometric Assay Kit provides a sensitive, fast and convenient way for accurate detection of creatine levels in various biological fluids based on colorimetric and fluorometric method.</p>  <p>Effect of mutations on Creatine transport and expression studies.</p>	<p>K2137</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>	<p>Lactate Fluorometric Assay Kit</p> <p>The Lactate Fluorometric Assay Kit provides a highly sensitive, simple and convenient way for detection of very low levels of L (+)-lactate in various biological samples based on fluorometric method.</p>  <p>The fold changes in lactate production in MCF-7 LKO and shJMJ5 cells were measured by Lactate Fluorometric Assay Kit.</p>	<p>K2140</p> <p>Size: 100 assays.</p> <p>Sample type: Serum and plasma. Animal tissues: liver, muscle, heart, etc. Cell culture: adherent or suspension cells.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 535/587 nm).</p>
<p>Sarcosine Colorimetric /Fluorometric Assay Kit</p> <p>The Sarcosine Colorimetric /Fluorometric Assay Kit provides a simple, fast and convenient way for accurate detection of sarcosine levels in various biological samples based on colorimetric and fluorometric method.</p>  <p>Sarcosine standard curve.</p>	<p>K2138</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>	<p>L-Amino Acid Quantitation Colorimetric /Fluorometric Kit</p> <p>The L-Amino Acid Quantitation Colorimetric/Fluorometric Kit provides a sensitive, fast and convenient way for detection of L-amino acid in various biological samples based on colorimetric and fluorometric method.</p>  <p>Effect of Dend3 knockdown on the intracellular L-amino acid concentration.</p>	<p>K2141</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>

L-Carnitine Colorimetric /Fluorometric Assay Kit

K2142

The L-Carnitine Colorimetric /Fluorometric Assay Kit provides a simple, fast and convenient way for detection of free L-carnitine in various biological samples based on colorimetric and fluorometric method.



Free L-carnitine generated from hydrolysis of acylcarnitines by 6 × His-PA5384 was detected by L-Carnitine Colorimetric/Fluorometric Assay Kit.

Size: 100 assays.

Sample type:
Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.

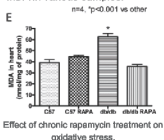
Species reactivity:
Mammalian.

Detection method:
Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).

Lipid Peroxidation (MDA) Colorimetric/Fluorometric Assay Kit

K2167

The Lipid Peroxidation (MDA) Colorimetric/Fluorometric Assay Kit is a fast and convenient tool for accurate detection of the MDA in various samples.



Size: 100 assays.

Sample type:
Cell and tissue culture supernatants, plasma and other biological fluids (optimized by end user).

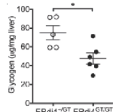
Species reactivity:
Mammalian.

Detection method:
Absorbance (532 nm) or Fluorescence (Ex/Em = 532/553 nm).

Glycogen Colorimetric /Fluorometric Assay Kit

K2143

The Glycogen Colorimetric /Fluorometric Assay Kit provides a sensitive, fast and convenient way for accurate detection of glycogen levels in various biological samples based on colorimetric and fluorometric method.



Liver glycogen in neonatal mice.

Size: 100 assays.

Sample type:
Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.

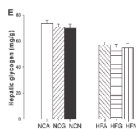
Species reactivity:
Mammalian.

Detection method:
Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).

Glycogen Colorimetric Assay Kit II

K2144

The Glycogen Colorimetric Assay Kit II provides a simple, fast and convenient way for detection of glycogen levels in various biological samples based on colorimetric method.



Changes in hepatic glycogen after ICV infusion of Ad-shNUCB2.

Size: 100 assays.

Sample type:
Animal tissues: liver, muscle. Cell culture: adherent or suspension cells.

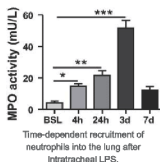
Species reactivity:
Mammalian.

Detection method:
Absorbance (450 nm).

Myeloperoxidase (MPO) Colorimetric Activity Assay Kit

K2168

The Myeloperoxidase (MPO) Colorimetric Activity Assay Kit offers a reliable and sensitive way for high throughput activity assay of MPO.



Size: 100 assays.

Sample type:
Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.

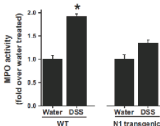
Species reactivity:
Mammalian.

Detection method:
Absorbance (412 nm).

Myeloperoxidase (MPO) Fluorometric Activity Assay Kit

K2169

The Myeloperoxidase (MPO) Fluorometric Activity Assay Kit offers a reliable and sensitive way for high throughput activity assay of MPO.

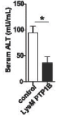
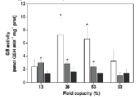
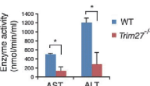
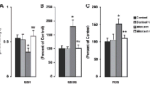
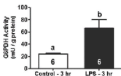
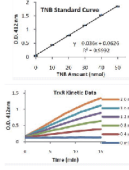


Size: 100 assays.

Sample type:
Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.

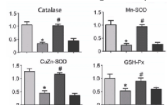
Species reactivity:
Mammalian.

Detection method:
Fluorescence (Ex/Em = 485/525 nm).

Alanine Aminotransferase (ALT or SGPT) Activity Colorimetric/Fluorometric Assay Kit	K2170	Glutathione Reductase Activity Colorimetric Assay Kit	K2173
<p>The Alanine Aminotransferase (ALT or SGPT) Activity Colorimetric/Fluorometric Assay kit offers a reliable and sensitive way for high throughput activity assay of ALT with a detection limit of 0.05 mU per well.</p>  <p>The serum ALT levels in HF-fed (high-fat diet) LysM PTP1B mice was measured.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, growth medium, food, etc.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>	<p>The Glutathione Reductase Activity Colorimetric Assay Kit provides an easy and sensitive way of detecting GR activity in biological samples.</p>  <p>Effect of water deficit on the activity of GR in different organs of mahogany seedlings.</p>	<p>Size: 200 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, erythrocyte lysates, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p>
Aspartate Aminotransferase (AST or SGOT) Activity Colorimetric Assay Kit	K2171	Glutathione Peroxidase Activity Colorimetric Assay Kit	K2174
<p>The Aspartate Aminotransferase (AST or SGOT) Activity Colorimetric Assay Kit offers a reliable and sensitive way for high throughput activity assay of AST with a detection limit of 10 mU per well.</p>  <p>Serum AST levels were determined 4 h after TNF-α-GalN injection.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p>	<p>The Glutathione Peroxidase Activity Colorimetric Assay Kit can be used to detect glutathione dependent peroxidases in tissue homogenates, plasma and cell lysates.</p>  <p>Altered redox state in preimplantation embryos of Western diet-fed rats.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, erythrocyte lysates, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (340 nm).</p>
Glucose-6-Phosphate Dehydrogenase Activity Colorimetric Assay Kit	K2172	Thioredoxin Reductase Activity Colorimetric Assay Kit	K2175
<p>The Glucose-6-Phosphate Dehydrogenase Activity Colorimetric Assay Kit offers a fast and sensitive method for detecting the G6PDH activity in various samples.</p>  <p>G6PDH activity were evaluated by the Glucose-6-Phosphate Dehydrogenase Activity Colorimetric Assay Kit in the renal cortex.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p>	<p>The Thioredoxin Reductase Assay Kit offers a fast and easy colorimetric assay for measuring thioredoxin reductase activity in different samples.</p>  <p>The TNB Standard Curve is generated by Thioredoxin Reductase Activity Colorimetric Assay Kit.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (412 nm).</p>

Catalase Activity Colorimetric/Fluorometric Assay Kit

The Catalase Activity Colorimetric/Fluorometric Assay Kit offers an easy and sensitive way for measuring catalase activity and detects high picount of catalase in biological samples.



Relative activities of antioxidant enzymes (Catalase, Mn-SOD, CuZn-SOD and GSH-Px) in kidney tissues in various groups.

K2177

Size: 100 assays.

Sample type:
Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, growth medium, food samples.

Species reactivity:
Mammalian.

Detection method:
Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).

Beta-Galactosidase Staining Kit

The Beta-Galactosidase Staining Kit provides a sensitive and simple assay for detection and quantification of β -Lactamases activity.

Strain	Substrate	Substrate	Substrate	Substrate	Substrate	Substrate	Substrate
Strain	Substrate	Substrate	Substrate	Substrate	Substrate	Substrate	Substrate
ATCC 25919	1	2	3	4	5	6	7
ATCC 25922	1	2	3	4	5	6	7
ATCC 25923	1	2	3	4	5	6	7
ATCC 25924	1	2	3	4	5	6	7
ATCC 25925	1	2	3	4	5	6	7
ATCC 25926	1	2	3	4	5	6	7
ATCC 25927	1	2	3	4	5	6	7
ATCC 25928	1	2	3	4	5	6	7
ATCC 25929	1	2	3	4	5	6	7
ATCC 25930	1	2	3	4	5	6	7
ATCC 25931	1	2	3	4	5	6	7
ATCC 25932	1	2	3	4	5	6	7
ATCC 25933	1	2	3	4	5	6	7
ATCC 25934	1	2	3	4	5	6	7
ATCC 25935	1	2	3	4	5	6	7
ATCC 25936	1	2	3	4	5	6	7
ATCC 25937	1	2	3	4	5	6	7
ATCC 25938	1	2	3	4	5	6	7
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ATCC 25942	1	2	3	4	5	6	7
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ATCC 25997	1	2	3	4	5	6	7
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ATCC 25999	1	2	3	4	5	6	7

Subclonant activities against recent clinical strains of *A. baumannii*.

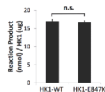
Size: 100 assays.

Sample type:
Serum, urine, saliva from mammals infected with β L-secreting bacteria. Food (e.g. milk). Fermentation media and bacterial cultures.

Detection method:
Absorbance (490 nm).

Hexokinase Colorimetric Assay Kit

The Hexokinase Colorimetric Assay Kit offers an easy and sensitive way for measuring hexokinase activity. The detection limit can be as low as 0.1 mU per well.



Hexokinase activities were measured by the Hexokinase Colorimetric Assay Kit with purified HK1-WT and HK1-E847K proteins.

K2179

Size: 100 assays.

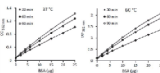
Sample type:
Cell and tissue culture lysates, plasma, serum, other biological fluids, cell culture medium.

Species reactivity:
Mammalian.

Detection method:
Absorbance (450 nm).

BCA Protein Quantitation Kit

The BCA Protein Assay Kit offers a fast, convenient and detergent tolerant method for measuring the concentrations of proteins in solution.



Standard curve is generated by the BCA Protein Quantitation Kit.

K2185

Size: 100 assays.

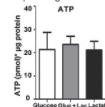
Sample type:
Cell and tissue culture homogenates (eukaryotic cells), serum and plasma.

Species reactivity:
Mammalian.

Detection method:
Absorbance (562 nm).

StayBrite Highly Stable ATP Bioluminescence Assay Kit

The StayBrite Highly Stable ATP Bioluminescence Assay Kit utilizes a highly stable Luciferase (Luciferase) which has enhanced stability and sensitivity with relatively more effective pH range.



ATP quantification by the Hexokinase Colorimetric Assay Kit in neuronal cell cultures grown in glucose, glucose + lactate or in lactate medium.

K2180

Size: 100 assays, 1000 assays.

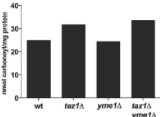
Sample type:
Cell and tissue culture homogenates.

Species reactivity:
Mammalian.

Detection method:
Luminescence.

Protein Carbonyl Content Assay Kit

The Protein Carbonyl Content Assay Kit offers an easy and accurate procedure for quantifying carbonyls in protein samples.



The protein content in all of the samples was measured by the Protein Carbonyl Content Assay Kit.

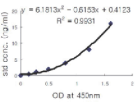
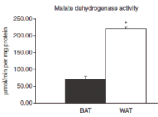
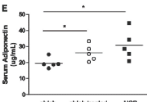
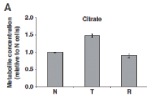
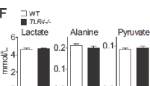
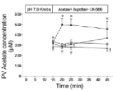
K2188

Size: 100 assays.

Sample type:
Variable (protein containing samples).

Species reactivity:
Mammalian.

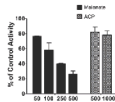
Detection method:
Absorbance (375 and 562 nm).

<p>Adiponectin (human) Elisa Assay Kit</p> <p>The Adiponectin (human) Elisa Assay Kit is an enzyme-linked immunosorbent assay for quantitative analysis of Adiponectin.</p>  <p>Standard Curve is generated by Adiponectin (human) Elisa Assay kit.</p>	<p>K2192</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p>	<p>Malate Dehydrogenase Activity Colorimetric Assay Kit</p> <p>The Malate Dehydrogenase Activity Colorimetric Assay Kit provides a highly sensitive, simple, fast and convenient way for detection of MDH activity in various biological samples based on colorimetric method.</p>  <p>The enzymatic activity of Malate Dehydrogenase in BAT and WAT.</p>	<p>K2206</p> <p>Size: 100 assays.</p> <p>Sample type: Animal tissues such as liver, heart, muscle, etc. Cell culture: adherent or suspension cells. Mochondria.</p> <p>Detection method: Absorbance (450 nm).</p>
<p>Adiponectin (mouse) Elisa Assay Kit</p> <p>The Adiponectin (Mouse) Elisa Assay Kit is an enzyme-linked immunosorbent assay for quantitative analysis of adiponectin in mouse serum, plasma, tissue and cell culture supernatants.</p>  <p>Serum adiponectin levels from mice treated in fasting blood glucose were measured by Adiponectin (mouse) Elisa Assay Kit.</p>	<p>K2193</p> <p>Size: 96 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p>	<p>Citrate Colorimetric /Fluorometric Assay Kit</p> <p>The Citrate Colorimetric /Fluorometric Assay Kit provides a sensitive, simple, fast and convenient way for detection of citrate levels in various biological samples based on colorimetric and fluorometric method.</p>  <p>Relative Citrate concentrations in N, T and R cell lines.</p>	<p>K2207</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>
<p>Alanine Colorimetric /Fluorometric Assay Kit</p> <p>The Alanine Colorimetric /Fluorometric Assay Kit provides a sensitive, fast and convenient way for detection of alanine levels in various biological samples based on colorimetric and fluorometric method.</p>  <p>Serum levels of gluconeogenic substrates in the fasted state.</p>	<p>K2205</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>	<p>Acetate Colorimetric Assay Kit</p> <p>The Acetate Colorimetric Assay Kit provides a sensitive, simple and fast way for detection of acetate levels in various samples based on colorimetric method.</p>  <p>Portal Vein (PV) acetate concentration during luminal perfusion of acetate in vivo.</p>	<p>K2209</p> <p>Size: 100 assays.</p> <p>Sample type: Serum and plasma. Animal tissues: liver, kidney, muscle, heart etc. Cell culture: adherent or suspension cells. Food sample.</p> <p>Detection method: Absorbance (450 nm).</p>

Succinate Dehydrogenase Activity Colorimetric Assay Kit

K2210

The Succinate Dehydrogenase Activity Colorimetric Assay Kit provides a sensitive, fast and simple way for detection of SDH activity in various samples based on colorimetric method.



Concentration-dependent effects of malonate and 2-ACP on the succinate dehydrogenase (SDH) activity in bovine heart mitochondrial preparations.

Size: 100 assays.

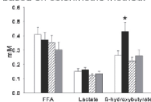
Sample type: Animal tissues: heart, liver, muscle, etc. Purified mitochondria. Cell culture: adherent or suspension cells.

Detection method: Absorbance (600 nm).

D-Lactate Colorimetric Assay Kit

K2213

The D-Lactate Colorimetric Assay Kit provides a simple, fast and convenient way for accurate detection of D-lactate levels in various biological samples based on colorimetric method.



Size: 100 assays.

Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids and fermentation media.

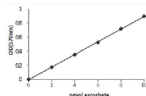
Species reactivity: Mammalian.

Detection method: Absorbance (450 nm).

Ascorbic Acid Colorimetric/Fluorometric Assay Kit

K2211

The Ascorbic Acid Colorimetric/Fluorometric Assay Kit provides a sensitive, fast and convenient way for detection of ascorbic acid levels in various samples based on colorimetric and fluorometric method.



Ascorbic Acid standard curve.

Size: 100 assays.

Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, food samples, growth medium, etc.

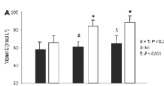
Species reactivity: Mammalian.

Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).

Ascorbic Acid Colorimetric Assay Kit II (FRASC)

K2214

The Ascorbic Acid Colorimetric Assay Kit II (FRASC) provides a sensitive, fast and convenient way for detection of ascorbic acid levels in various samples based on colorimetric method.



Mean plasma vitamin C (A) concentrations in the placebo and vitamin groups.

Size: 100 assays.

Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, growth media and food products.

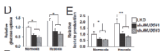
Species reactivity: Mammalian.

Detection method: Absorbance (545 - 600 nm).

Glucose Uptake Fluorometric Assay Kit

K2212

The Glucose Uptake Fluorometric Assay Kit provides a non-radioactive, highly sensitive, fast and convenient way for detection glucose uptake in cell lysates based on fluorometric method.



The fold changes in glucose uptake (D) and lactate production (E) in MCF-7 LKO and shJMJID6 cells were measured.

Size: 100 assays.

Sample type: Cell lysates.

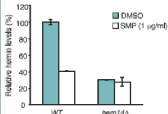
Species reactivity: Mammalian.

Detection method: Fluorescence (Ex/Em = 535/587 nm).

Heme Colorimetric Assay Kit

K2215

The Heme Colorimetric Assay Kit provides a highly sensitive, fast and convenient way for detection of heme levels in various samples based on colorimetric method.



Sampangine treatment reduces heme levels in wild-type yeast.

Size: 100 assays.

Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, growth media and food products.

Species reactivity: Mammalian.

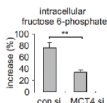
Detection method: Absorbance (570 nm).

Alpha-Ketoglutarate Colorimetric/Fluorometric Assay Kit	K2216	Glucose Colorimetric Assay Kit II	K2219
<p>The Alpha-Ketoglutarate Colorimetric/Fluorometric Assay Kit provides a highly sensitive, fast and convenient way for detection of α-KG levels in various biological samples based on colorimetric and fluorometric method.</p> <p>D</p> <p>Metformin and BI2536 alter glutamine metabolism.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>	<p>The Glucose Colorimetric Assay Kit II provides a sensitive, simple, fast and convenient way for detection of glucose levels in various biological samples based on colorimetric method.</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, fermentation media, food samples, etc.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p> <p>Chronic administration of VPA to ob/ob mice results in decreased serum glucose.</p>	
Alpha-Ketoglutarate Dehydrogenase Activity Colorimetric Assay Kit	K2217	Glucose-6-Phosphate Fluorometric Assay Kit	K2220
<p>The Alpha-Ketoglutarate Dehydrogenase Activity Colorimetric Assay Kit provides a sensitive, simple, fast and convenient way for detection of α-KGDH activity in various samples based on colorimetric method.</p> <p>B)</p> <p>α-Ketoglutarate Dehydrogenase Activity in rat heart and rat liver lysates.</p>	<p>Size: 100 assays.</p> <p>Sample type: Animal tissues: liver, heart, muscle, etc. Purified mitochondria. Cell culture: adherent or suspension cells.</p> <p>Detection method: Absorbance (450 nm).</p>	<p>The Glucose-6-Phosphate Fluorometric Assay Kit provides a highly sensitive, simple, fast and convenient way for detection of G6P levels in various biological samples based on fluorometric method.</p> <p>intracellular glucose 6-phosphate</p> <p>MCT4 knockdown leads to intracellular decreased glycolysis in macrophages.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, growth medium, etc.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 535/587 nm).</p>
Pyruvate Dehydrogenase (PDH) Activity Colorimetric Assay Kit	K2218	Glucose Fluorometric Assay Kit	K2221
<p>The Pyruvate Dehydrogenase (PDH) Activity Colorimetric Assay Kit provides a sensitive, simple, fast and convenient way for detection of PDH activity in various samples based on colorimetric method.</p> <p>A</p> <p>Pyruvate dehydrogenase activity (PDHa) in skeletal muscle (SM) and liver.</p>	<p>Size: 100 assays.</p> <p>Sample type: Animal tissues: liver, heart, muscle, etc. Purified mitochondria. Cell culture: adherent or suspension cells.</p> <p>Detection method: Absorbance (450 nm).</p>	<p>The Glucose Fluorometric Assay Kit provides an ultra-sensitive, simple, fast and convenient way for detection of glucose levels in various samples based on fluorometric method.</p> <p>Knockdown of glut12 leads to hyperglycemia.</p>	<p>Size: 100 assays.</p> <p>Sample type: Serum, plasma and other body fluids. Animal tissues: liver, muscle, heart, etc. Cell culture: adherent or suspension cells. Growth media. Food.</p> <p>Detection method: Fluorescence (Ex/Em = 535/587 nm).</p>

Fructose-6-Phosphate Fluorometric Assay Kit

K2222

The Fructose-6-Phosphate Fluorometric Assay Kit provides a highly sensitive, simple, fast and convenient way for detection of F6P levels in various samples based on fluorometric method.



MCT4 knockdown leads to intracellular decreased glycolysis in macrophages.

Size: 100 assays.

Sample type:
Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, growth media and food products.

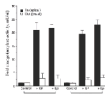
Species reactivity:
Mammalian.

Detection method:
Fluorescence (Ex/Em = 535/587 nm).

Amylase Activity Colorimetric Assay Kit

K2225

The Amylase Activity Colorimetric Assay Kit provides a sensitive, simple, fast and convenient way for detection of α -amylase activity in various samples based on colorimetric method.



Effect of isoproterenol and epinephrine on α -amylase secretion in p1mSG Transwell insert cultures.

Size: 100 assays.

Sample type:
Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, fermentation media, food samples, etc.

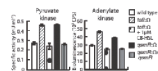
Species reactivity:
Mammalian.

Detection method:
Absorbance (405 nm).

Pyruvate Kinase Activity Colorimetric/Fluorometric Assay Kit

K2223

The Pyruvate Kinase Activity Colorimetric/Fluorometric Assay Kit provides a sensitive, simple, fast and convenient way for accurate detection of PK activity in various samples based on colorimetric and fluorometric method.



The activities of pyruvate kinase and adenylate kinase are higher in the QS mutants than wild-type *B. glumae*.

Size: 100 assays.

Sample type:
Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, growth medium, food, etc.

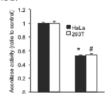
Species reactivity:
Mammalian.

Detection method:
Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).

Aconitase Activity Colorimetric Assay Kit

K2226

The Aconitase Activity Colorimetric Assay Kit provides a highly sensitive, simple, fast and convenient way for detection of aconitase activity in various samples based on colorimetric method.



Cell treated with rapamycin were analyzed by aconitase activity assay by Aconitase Activity Colorimetric Assay Kit.

Size: 100 assays.

Sample type:
Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, fermentation media, food samples etc.

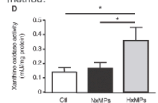
Species reactivity:
Mammalian.

Detection method:
Absorbance (450 nm).

Xanthine Oxidase Activity Colorimetric/Fluorometric Assay Kit

K2224

The Xanthine Oxidase Activity Colorimetric/Fluorometric Assay Kit provides a sensitive, simple, fast and convenient way for accurate detection of XO activity in various samples based on colorimetric and fluorometric method.



Xanthine oxidase activity in ECs from pulmonary arteries.

Size: 100 assays.

Sample type:
Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, growth medium, food, etc.

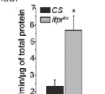
Species reactivity:
Mammalian.

Detection method:
Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).

Lipase Activity Colorimetric Assay Kit

K2227

The Lipase Activity Colorimetric Assay Kit provides a sensitive, easy and fast way for detection of lipase activity in various samples based on colorimetric method.



Specific lipase activity was measured in lysates from adult midguts.

Size: 100 assays.

Sample type:
Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, growth medium, food, etc.

Species reactivity:
Mammalian.

Detection method:
Absorbance (570 nm).

Glutamate Dehydrogenase Activity Colorimetric Assay Kit

K2229

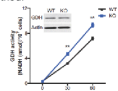
The Glutamate Dehydrogenase Activity Colorimetric Assay Kit provides a sensitive, simple, fast and convenient way for detection of GDH activity in various samples based on colorimetric method.

Size: 100 assays.

Sample type:
Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.

Species reactivity:
Mammalian.

Detection method:
Absorbance (450 nm).



GDH activity in B cell lymphomas from Eμ-Myc/SIRT4WT and Eμ-Myc/SIRT4KO mice.

Glucose Colorimetric /Fluorometric Assay Kit

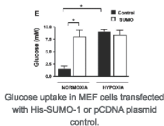
K2091

The Glucose Colorimetric /Fluorometric Assay Kit provides a sensitive, simple and convenient way for detection of glucose in various biological samples (serum, plasma, body fluid, growth medium, food, etc.) based on colorimetric and fluorometric method.

Size: 100 assays.

Sample type:
Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids and growth medium.

Species reactivity:
Mammalian.



Glucose uptake in MEF cells transfected with His-SUMO-1 or pCDNA plasmid control.

Detection method:
Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).

Neuraminidase Activity Fluorometric Assay Kit

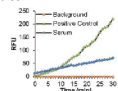
K2230

The Neuraminidase Activity Fluorometric Assay Kit provides a sensitive, simple, fast and convenient way for detection of NA activity in various biological samples based on fluorometric method.

Size: 100 assays.

Sample type:
Animal tissues: liver, brain, kidney, etc. Cell culture: adherent or suspension cells. Serum.

Detection method:
Absorbance (450 nm).



NA activity in normal human serum.

Adipogenesis Colorimetric /Fluorometric Assay Kit

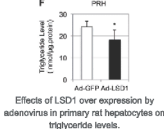
K2120

The Adipogenesis Colorimetric /Fluorometric Assay Kit provides a highly sensitive, fast and convenient way for detection of triglyceride accumulation in cells and tissues based on colorimetric and fluorometric method.

Size: 100 assays.

Sample type:
Adipocyte precursors such as 3T3 cells, human preadipocytes.

Species reactivity:
Mammalian.



Effects of LSD1 over expression by adenovirus in primary rat hepatocytes on triglyceride levels.

Detection method:
Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).

Multiple Assays Related

Total Cholesterol and Cholesteryl Ester Colorimetric/Fluorometric Assay Kit

K2090

The Total Cholesterol and Cholesteryl Ester Colorimetric /Fluorometric Assay Kit provides a sensitive, simple and convenient way for detection of free cholesterol, cholesteryl esters, or both in various biological fluids based on colorimetric and fluorometric method.

Size: 100 assays.

Sample type:
Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.

Species reactivity:
Mammalian.

Detection method:
Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).

Table B1: Effect of MCD on cholesterol content on cholesterol content and activity of HMG-CoA reductase^a

Vehicle	Cholesterol Content (nmol/10 ⁶ cells)	HMG-CoA reductase Activity (pmol/10 ⁶ cells/h)
Control	3.06 ± 0.24 (100%)	1.90 ± 0.26 (100%)
1 μM MCD	3.45 ± 0.24 (113%)	1.71 ± 0.27 (89%)
1 nM MCD	3.55 ± 0.25 (116%)	1.61 ± 0.36 (85%)
0.25 μM MCD	3.15 ± 0.13 (103%)	1.91 ± 0.13 (100%)
0.5 μM MCD	3.06 ± 0.11 (100%)**	1.67 ± 0.12 (88%)**
1 μM MCD	3.76 ± 0.01 (123%)**	2.05 ± 0.24 (108%)**

^a Values are mean ± SEM percentage of the control, n = 30.
^b Control = 0.65 μmol/L with vehicle. ** Denotes p < 0.05 compared with control. *** Denotes p < 0.001 compared with control.

Free Fatty Acid Quantification Colorimetric /Fluorometric Kit

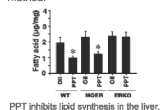
K2121

The Free Fatty Acid Quantification Colorimetric /Fluorometric Kit provides a sensitive, fast and convenient way for detection of long-chain free fatty acids in various biological samples based on colorimetric and fluorometric method.

Size: 100 assays.


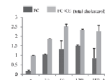
Sample type:
Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.

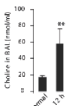
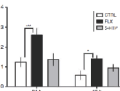
Species reactivity:
Mammalian.


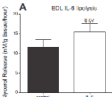


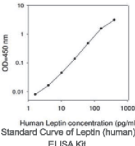
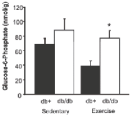
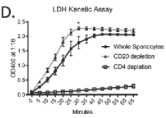
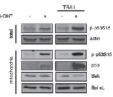
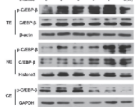
PPT inhibits lipid synthesis in the liver.

Detection method:
Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).

<p>HDL and LDL/VLDL Quantification Colorimetric /Fluorometric Kit</p> <p>The HDL and LDL/VLDL Quantification Colorimetric /Fluorometric Kit provides a sensitive, fast and convenient way for detection of HDL and LDL/VLDL in plasma and serum samples based on colorimetric and fluorometric method.</p>  <p>Cholesterol in VLDL/LDL fraction of blood plasma (mg/dL) in <i>Thbs4^{-/-} ApoE^{-/-}</i> mice with the regular chow or the Western diet.</p>	<p>K2122</p> <p>Size: 100 assays.</p> <p>Sample type: Plasma and serum.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>	<p>Total Cholesterol and Cholesteryl Ester Colorimetric Assay Kit II</p> <p>The Total Cholesterol and Cholesteryl Ester Colorimetric Assay Kit II provides a sensitive, simple and convenient way for detection of free cholesterol, cholesteryl esters, or both in various biological fluids based on colorimetric method.</p>  <p>FC and total cholesterol (FC + CE) content at various times after ChoI/MBCD loading were measured.</p>	<p>K2128</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p>
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<p>Choline/Acetylcholine Quantification Colorimetric /Fluorometric Kit</p> <p>The Choline/Acetylcholine Quantification Colorimetric /Fluorometric Kit provides a fast and convenient way for detection of choline and acetylcholine in various biological samples based on colorimetric and fluorometric method.</p>  <p>Changes of choline in the BAL at 12 h after <i>E. coli</i> pneumonia.</p>	<p>K2123</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>	<p>Lactose Colorimetric /Fluorometric Assay Kit</p> <p>The Lactose Colorimetric /Fluorometric Assay Kit provides a sensitive, fast and convenient way for detection of lactose levels in various biological samples (plasma, serum, other body fluids, growth media, food, etc.) based on colorimetric and fluorometric method.</p>  <p>Lactose levels were measured by Lactose Colorimetric/Fluorometric Assay Kit.</p>	<p>K2129</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>
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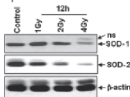
<p>Triglyceride Quantification Colorimetric/Fluorometric Kit</p> <p>The Triglyceride Quantification Colorimetric/Fluorometric Kit provides a sensitive, fast and convenient way for detection of TG levels in various biological samples based on colorimetric and fluorometric method.</p>  <p>PPT inhibits lipid synthesis in the liver.</p>	<p>K2127</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>	<p>Free Glycerol Colorimetric /Fluorometric Assay Kit</p> <p>The Free Glycerol Colorimetric /Fluorometric Assay Kit provides a sensitive, fast and convenient way for detection of free glycerol in various samples based on colorimetric and fluorometric method.</p>  <p>Glycerol release was measured by Free Glycerol Colorimetric /Fluorometric Assay Kit.</p>	<p>K2134</p> <p>Size: 100 assays.</p> <p>Sample type: Animal tissues, cells, cell and tissue culture supernatants, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: All.</p> <p>Detection method: Absorbance (570 nm) or Fluorescence (Ex/Em = 535/587 nm).</p>
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<p>Leptin (human) ELISA Kit</p> <p>The Human Leptin ELISA kit is an enzyme-linked immunosorbent assay for quantitative detection of human Leptin <i>in vitro</i>.</p> <p>Assay Diluent A</p>  <p>Standard Curve of Leptin (human) ELISA Kit.</p>	<p>K2191</p> <p>Size: 100 assays.</p> <p>Species reactivity: Human.</p> <p>Detection method: Absorbance (450 nm).</p>	<p>Sample Extraction related</p>
<p>Glucose-6-Phosphate Colorimetric Assay Kit</p> <p>The Glucose-6-Phosphate Colorimetric Assay Kit provides a sensitive, simple, fast and convenient way for detection of G6P levels in various biological samples based on colorimetric method.</p>  <p>Concentration of glucose 6-phosphate in the heart of db+ and db/db mice in sedentary and exercised groups.</p>	<p>K2208</p> <p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p>	
<p>Lactate Dehydrogenase (LDH) Activity Assay Kit</p> <p>The Lactate Dehydrogenase (LDH) Activity Assay Kit provides a sensitive, simple, fast and convenient way for detection of LDH activity in various biological samples based on colorimetric method.</p>  <p>Influence of CD20 depletion on Immune Reconstitution Inflammatory Syndrome.</p>	<p>K2228</p> <p>Size: 500 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, etc.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p>	<p>Mitochondria/Cytosol Fractionation Kit</p> <p>The Mitochondria/Cytosol Fractionation Kit utilizes a special formulation of reagents to isolate enriched mitochondrial fraction from cytosolic fraction of both apoptotic and nonapoptotic mammalian cells.</p>  <p>Mitochondria-enriched fractions and light membranes/cytosolic fractions were isolated by Mitochondria/Cytosol Fractionation Kit.</p> <p>Size: 25 assays, 100 assays.</p> <p>Sample type: Cells and tissues.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Western blotting, ELISA or other assays.</p>
<p>Lactate Dehydrogenase (LDH) Activity Assay Kit</p> <p>The Lactate Dehydrogenase (LDH) Activity Assay Kit provides a sensitive, simple, fast and convenient way for detection of LDH activity in various biological samples based on colorimetric method.</p>	<p>K2211</p> <p>Size: 500 assays.</p> <p>Sample type: Cell and tissue culture supernatants, urine, plasma and serum, as well as many other biological fluids, etc.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Absorbance (450 nm).</p>	<p>Nuclear/Cytosol Fractionation Kit</p> <p>The Nuclear/Cytosol Extraction Kit offers a fast and convenient separation of nuclear extract from the cytoplasmic fraction of mammalian cells with little or no cross-contaminations.</p>  <p>C/EBP-β is activated by HP-PRRSV (porcine reproductive and respiratory syndrome virus) infection.</p> <p>Size: 25 assays, 100 assays.</p> <p>Sample type: Cell culture (adherent and suspension), fresh and frozen tissues.</p> <p>Species reactivity: Mammalian.</p>

Mammalian Cell Extraction Kit

K2114

The Mammalian Cell Extraction Kit offers an optimized cell extraction buffer, protease inhibitor cocktail and DTT for rapid and easy extraction of mammalian proteins from cultured cells and tissue samples without denaturation.



Heat shock proteins were extracted from samples by the Mammalian Cell Extraction Kit.

Size: 500 assays.

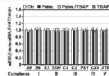
Sample type:
Cell culture (adherent and suspension), fresh and frozen tissues.

Species reactivity:
Mammalian.

Genomic DNA Isolation Kit

K2118

The Genomic DNA Isolation Kit offers an easy and convenient way for fast extraction of genomic DNA from mammalian cells and tissue samples in high yield and purity and takes less 90 minutes.



Palmitic acid decrease gene expression of (OXPHOS oxidative phosphorylation system) subunits.

Size: 50 assays.

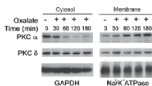
Sample type:
Cell culture (adherent and suspension), fresh and frozen tissues.

Species reactivity:
Mammalian.

FractionPREP™ Cell Fractionation Kit

K2115

The FractionPREP™ Cell Fractionation system is a fast and simple way of extracting four subcellular protein fractions (cytosol, nucleus, membrane/particulate, and cytoskeletal fractions) from a single mammalian sample.



Effect of oxalate on translocation of PKC- α and- δ .

Size: 50 assays.

Sample type:
Cell culture (adherent and suspension), fresh and frozen tissues.

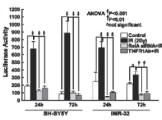
Species reactivity:
Mammalian.

Others

Luciferase Reporter Assay Kit

K2181

The Luciferase Reporter Assay Kit offers a fast and easy way of sensitive way of detecting luciferase activity in transfected eukaryotic cells.



Size: 200 assays.

Sample type:
Cell and tissue culture homogenates (eukaryotic cells).

Species reactivity:
Mammalian.

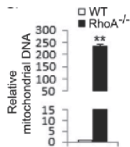
Luciferase reporter assay was measured by the Luciferase Reporter Assay Kit.

Detection method:
Luminescence.

Mitochondrial DNA Isolation Kit

K2117

The Mitochondrial DNA Isolation Kit offers a simple and effective tool for isolating mtDNA from various cells and tissues with high without genomic DNA contaminations.



Mitochondrial DNA contents in total thymocytes.

Size: 50 assays.

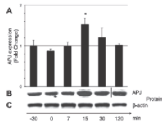
Sample type:
Cell culture (adherent and suspension), fresh and frozen tissues.

Species reactivity:
Mammalian.

ECL Western Blotting Substrate Kit

K2187

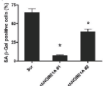
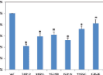
The ECL Western Blotting Substrate is a sensitive, nonradioactive, and upgraded luminal-based chemiluminescent substrate for easy detection of HRP (horseradish





Expression of APJ (apelin receptor) before and after ischemia.



Size: 50 assays, 500 assays.

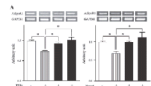

Detection method: Be repeatedly exposed to X-ray film or a CCD camera to obtain optimal results or stripped of the immuno-detection reagents and re-probed.


Beta-Galactosidase Staining Kit	K2182	EZLink NHS-Biotin Kit	K1002
<p>The Beta-galactosidase Staining Kit utilizes X-gal as substrate and can be easily assayed in situ.</p>  <p>NOR+1A is essential for senescence in human bronchial epithelial cells.</p>	<p>Size: 250 assays.</p>	<p>The EZLink NHS-Biotin Kit contains reagents sufficient for 10 biotin labeling reactions. It is a water-soluble biotin reagent for labeling protein, antibody or other molecules with amidogen (NH₂-).</p>	<p>Size: 10 reactions.</p>
GFP Quantitation Kit	K2186	EZLink NHS-LC-Biotin Kit	K1003
<p>The GFP Quantitation Kit quantifies GFP in a 96 micro-plate form. Cells and tissues can be directly homogenized in the GFP Assay Buffer.</p>  <p>Quantification of GFP-DNMT1 proteins in HEK293 cells.</p>	<p>Size: 100 assays.</p> <p>Sample type: Cell and tissue culture.</p> <p>Species reactivity: Mammalian.</p> <p>Detection method: Fluorescence (Ex/Em = 488/507 nm).</p>	<p>The EZLink NHS-LC-Biotin Kit contains reagents sufficient for 10 biotin labeling reactions. It is a water-soluble biotin reagent for labeling protein, antibody or other molecules with amidogen (NH₂-).</p>	<p>Size: 10 reactions.</p>
PCR Quick Screening Kit	K2189	EZLink NHS-SS-Biotin Kit	K1004
<p>The PCR Quick Screening Kit provides quick screening of clone candidates by PCR technology. The methods can screen colonies directly from the plate without culture growing.</p>	<p>Size: 500 samples.</p>	<p>The EZLink NHS-SS-Biotin Kit contains reagents sufficient for 10 biotin labeling reactions. It is a water-soluble biotin reagent for labeling protein, antibody or other molecules with amidogen (NH₂-).</p>	<p>Size: 10 reactions.</p>
PEG Virus Precipitation Kit	K2190	EZLink Sulfo-NHS-Biotin Kit	K1005
<p>The PEG Virus Precipitation Kit offers a fast and convenient way for concentrating virus without ultra-centrifugation.</p>	<p>Size: 50 preparations, 200 preparations.</p>	<p>The EZLink Sulfo-NHS-Biotin Kit contains reagents sufficient for 10 biotin labeling reactions. It is a water-soluble biotin reagent for labeling protein, antibody or other molecules with amidogen (NH₂-).</p>	<p>Size: 10 reactions.</p>
EZLink Sulfo-NHS-LC-Biotin Kit	K1001	EZLink Sulfo-NHS-SS-Biotin Kit	K1006
<p>The EZLink Sulfo-NHS-LC-Biotin Kit contains reagents sufficient for 10 biotin labeling reactions. It is a water-soluble biotin reagent for labeling protein, antibody or other molecules with amidogen (NH₂-).</p>	<p>Size: 10 reactions.</p>	<p>The EZLink Sulfo-NHS-SS-Biotin Kit contains reagents sufficient for 10 biotin labeling reactions. It is a water-soluble biotin reagent for labeling protein, antibody or other molecules with amidogen (NH₂-).</p>	<p>Size: 10 reactions.</p>

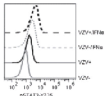

TNF related

<p>TNF-alpha, human recombinant protein</p>	<p>P1001</p>
<p>TNF-α is a potent cytokine expressed as a 26 kDa transmembrane protein.</p>  <p>Herpes Simplex Virus 1 Protein Kinase US3 (HSV-1 US3) inhibits TNF-α-induced NF-κB activation.</p>	 <p>Size: 10 μg, 50 μg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 mg/ml.</p> <p>ED50: < 0.05 ng/ml.</p>

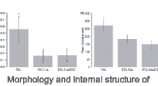

<p>TNF-alpha, murine recombinant protein</p>	<p>P1002</p>
<p>TNF-α is a potent cytokine expressed as a transmembrane protein with 235 amino acids that is cleaved to the soluble monomer by TNF-α converting enzyme (TACE) and forms stable homotrimer.</p>  <p>TNF-α modulates the expression of MMPs and TIMPs in skeletal muscle cells.</p>	 <p>Size: 10 μg, 50 μg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 mg/ml.</p> <p>ED50: < 0.1 ng/ml.</p>

<p>TNF-alpha, rat recombinant protein</p>	<p>P1003</p>
<p>Rat TNF-α is a potent cytokine expressed as a transmembrane protein with 235 amino acids that is cleaved to the soluble monomer by TACE and forms stable homotrimer.</p>  <p>Expression of AdipoR1 in cultured cardiomyocytes.</p>	 <p>Size: 10 μg, 50 μg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 mg/ml.</p> <p>ED50: < 0.05 ng/ml.</p>

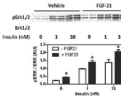
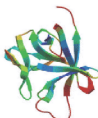
<p>IFN-gamma, murine recombinant protein</p>	<p>P1015</p>
<p>Mature mouse IFN-γ exists as a noncovalently linked homodimer of 20 - 25 kDa variably glycosylated subunits. The recombinant murine IFN-γ is a 15.6 kDa protein containing 134 amino acid residues.</p> <p>IFN-γ is a prototypic proinflammatory cytokine that is mainly produced by activated T, B and NK cells.</p>	 <p>Size: 20 μg, 100 μg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 mg/ml.</p> <p>ED50: < 0.05 ng/ml.</p>

<p>IFN-alpha 1, human recombinant protein</p>	<p>P1058</p>
<p>IFN-α1, also called IFN-α, is a lymphoid factor with potent antiviral antiproliferative and immunomodulatory properties. Human IFN-α1 is a 19.3 kDa protein containing 166 amino acid residues.</p>  <p>The ability of exogenous IFN-α to trigger STAT3 phosphorylation in infected cells is impaired.</p>	 <p>Size: 10 μg, 100 μg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 mg/ml.</p> <p>ED50: < 0.1 ng/μg.</p>

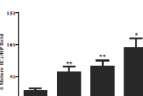
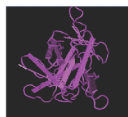
EGF related

<p>EGF human recombinant protein</p>	<p>P1008</p>
<p>The recombinant human EGF is a 6.2 kDa protein containing 53 amino acid residues. The recombinant human EGF has an N-terminal His-tag preceding the 53 amino acid sequence (MW: 8.5 kDa).</p>  <p>Morphology and internal structure of nanofibrous scaffolds.</p>	 <p>Size: 100 μg, 500 μg, 1 mg, 5 mg.</p> <p>Soluble in water: 0.1 - 1.0 mg/ml.</p> <p>ED50: 5.92 - 10.06 ng/ml.</p>

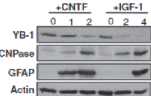
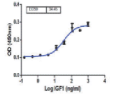
FGF related

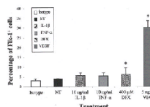
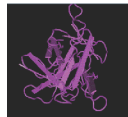
<p>FGF-21, murine recombinant protein</p>	<p>P1009</p>
<p>The recombinant mouse FGF-21 produced in E.Coli is a single and non-glycosylated polypeptide chain containing 183 amino acids including N-terminal Methionine.</p>  <p>FGF-21 pre-incubation increases basal ERK1/2 phosphorylation compared to vehicle.</p>	 <p>Size: 10 µg, 50 µg, 1 mg. Soluble in water: 0.1 - 1.0 mg/ml.</p>

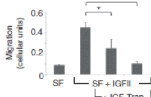
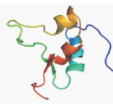
Immuno-modulator related

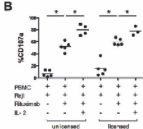
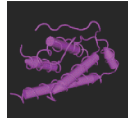
<p>IL-1beta, human recombinant protein</p>	<p>P1018</p>
<p>The recombinant human IL-1β is a 17.0 kDa protein containing 153 amino acid residues.</p>  <p>Neutralization of IL-18 restores endothelial differentiation.</p>	 <p>Size: 10 µg, 50 µg, 1 mg. Soluble in water: 0.1 - 1.0 mg/ml. ED50: < 0.1 ng/ml.</p>

IGF related

<p>IGF-1, human recombinant</p>	<p>P1016</p>
<p>Human IGF-1 is a 7.6 kDa protein containing 70 amino acid residues. The recombinant human IGF-1 is produced using animal origin free technology.</p>  <p>Downregulation of YB-1 upon glial differentiation.</p>	 <p>Size: 100 µg, 1 mg, 5 mg, 10 mg, 20 mg, 50 mg, 1 g. Soluble in water: 0.1 - 1.0 mg/ml. EC50: 21.6 - 54.7 ng/ml.</p>

<p>IL-1 beta, rat recombinant protein</p>	<p>P1019</p>
<p>The rat IL-1β cDNA encodes a 268 amino acids precursor. The recombinant rat IL-1β is a 17.3 kDa protein containing 153 amino acid residues.</p>  <p>Expression of Flk-1 in macrophage cell lines.</p>	 <p>Size: 10 µg, 50 µg, 1 mg. Soluble in water: 0.1 - 1.0 mg/ml. ED50: < 0.1 ng/ml.</p>

<p>IGF-II, human recombinant protein</p>	<p>P1017</p>
<p>The recombinant Human IGF-II is a 7.5 kDa protein containing 67 amino acid residues.</p>  <p>The IGF-Trap inhibits IGFIR signaling and blocks IGF-I- and IGFII-induced cellular activities in vitro.</p>	 <p>Size: 10 µg, 50 µg, 1 mg. Soluble in water: 0.1 - 1.0 mg/ml. ED50: < 1.0 ng/ml.</p>

<p>IL-2, human recombinant protein</p>	<p>P1020</p>
<p>Human IL-2 acts on murine and human T cells. The recombinant human IL-2 is a 15.5 kDa protein containing 134 amino acid residues.</p>  <p>Ritux alone is sufficient to activate unlicensed natural killer (NK) cells.</p>	 <p>Size: 10 µg, 50 µg, 1 mg. Soluble in water: 0.1 - 1.0 mg/ml. ED50: < 0.1 ng/ml.</p>

<p>IL-3, human recombinant protein</p> <p>IL-3 is highly species-specific and human IL-3 does not show activity on murine cells. The recombinant human IL-3 is a 15.0 kDa protein containing 133 amino acid residues.</p> <p>B</p> <p>Expression and function of NXPH1 in huCB.</p>	<p>P1021</p> <p>Size: 10 µg, 50 µg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 mg/ml.</p> <p>ED50: < 0.1 ng/ml.</p>	<p>IL-7, murine recombinant protein</p> <p>Human and murine IL-7 is cross-species reactive. The recombinant murine IL-7 is a 15.0 kDa protein containing 130 amino acid residues.</p> <p>Ikarsos null thymic progenitors requires interaction with Notch ligand to differentiate and proliferate.</p>	<p>P1025</p> <p>Size: 10 µg, 50 µg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 µg/µl.</p> <p>ED50: < 0.2 ng/ml.</p>
<p>IL-4, murine recombinant protein</p> <p>Mature mouse IL-4 shares 39%, 39%, and 59% amino acid sequence identity with bovine, human, and rat IL-4, respectively. Human, mouse, and rat IL-4 are species-specific. The recombinant murine IL-4 is a 13.5 kDa globular protein containing 120 amino acid residues.</p> <p>Size: 10 µg, 50 µg, 1 mg.</p>	<p>P1022</p> <p>Soluble in water: 0.1 - 1.0 µg/ml.</p> <p>ED50: < 2.0 ng/ml.</p>	<p>IL-8, human recombinant protein</p> <p>The human IL-8 cDNA encodes a 99 amino acid protein with a 20 amino acid signal sequence. The recombinant human IL-8 (endothelial-derived) is a 8.9 kDa protein containing 77 amino acid residues.</p> <p>Hypertonic saline (HTS) decreases IL-8 levels of cystic fibrosis (CF) bronchoalveolar lavage fluid (BALF) in vitro.</p>	<p>P1026</p> <p>Size: 25 µg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 µg/µl.</p>
<p>IL-6, rat recombinant protein</p> <p>The rat IL-6 cDNA encodes a 211 amino acid protein with a 24 amino acids signal sequence. The recombinant rat IL-6 is a 21.7 kDa protein containing 187 amino acid residues.</p> <p>Size: 10 µg, 50 µg, 1 mg.</p>	<p>P1023</p> <p>Soluble in 10 mM HCl: 0.1 - 1.0 µg/µl.</p> <p>ED50: < 0.01 ng/ml.</p>	<p>IL-10, human recombinant protein</p> <p>Human IL-10 is active on murine cells, but murine IL-10 is inactive on human cells. The recombinant human IL-10 is a 18.6 kDa protein containing 161 amino acid residues.</p> <p>Increase in BCL-6 protein levels upon TCDD treatment in human primary B cells.</p>	<p>P1028</p> <p>Size: 10 µg, 50 µg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 µg/µl.</p> <p>ED50: < 2 ng/ml.</p>
<p>IL-7, human recombinant protein</p> <p>Human and murine IL-7 is cross-species reactive. The recombinant human IL-7 is a 17.4 kDa protein containing 153 amino acid residues.</p> <p>A</p> <p>Kinetic analysis of cell proliferation.</p>	<p>P1024</p> <p>Size: 10 µg, 50 µg, 1 mg.</p> <p>Soluble in water: 0.1 mg/ml.</p> <p>ED50: < 0.5 ng/ml.</p>		

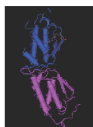
<p>IL-15, human recombinant protein</p> <p>Both human and simian IL-15 are active on mouse cells. The recombinant human IL-15 is a 12.8 kDa protein containing 114 amino acid residues.</p> <p>A</p> <p>Int-WT</p> <p>Int-IL-15</p> <p>Unintegrated HIV-1 generates de novo virus in resting CD4+ T cells.</p>	<p>P1029</p> <p>Size: 10 µg, 50 µg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 µg/µl.</p> <p>ED50: < 0.5 ng/ml.</p>	<p>IL-21, human recombinant protein</p> <p>The recombinant human IL-21 is a homodimeric, non-glycosylated polypeptide containing 133 amino acid residues and has a molecular weight of 15.5 kDa.</p> <p>Viable cell number (OD 610)</p> <p>medium IL-21+IL-4 IL-21</p> <p>DMSO DAPT</p> <p>DAPT effect on GC-B cells is specific to Notch signaling.</p>	<p>P1033</p> <p>Size: 10 µg, 50 µg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 µg/µl.</p> <p>ED50: < 5 ng/ml.</p>
<p>IL-17A, human recombinant protein</p> <p>IL-17A exhibits cross-species bioactivity between human and murine cells. The recombinant IL-17 is a 31 kDa disulfide-linked homodimer of two 136 amino acid polypeptide chains.</p> <p>IL-6 release (pg/ml)</p> <p>Ctl C12 PAM LPS Flag IL-17</p> <p>IL-18 hypersecretion occurs in response to pattern recognition receptor activation.</p>	<p>P1030</p> <p>Size: 25 µg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 µg/µl.</p> <p>ED50: < 2 ng/ml.</p>	<p>IL-18, human recombinant protein</p> <p>The human IL-18 cDNA encodes a 193 aa protein with a 36 amino acid propeptide. The recombinant human IL-18 is an 18 kDa single and non-glycosylated polypeptide chain containing 157 amino acids.</p> <p>IL-6 release (pg/ml)</p> <p>LPS IL-18 IL-18+NETs</p> <p>Healthy control macrophages were primed with LPS and treated with IL-18 or NETs.</p>	<p>P1032</p> <p>Size: 25 µg, 100 µg, 1 mg.</p> <p>Soluble in ice-cold water: 0.5 - 1 µg/µl.</p> <p>ED50: 5 ng/ml.</p>
<p>IL-17A, rat recombinant protein</p> <p>Human, mouse and rat IL-17A show activity on mouse cells. The recombinant rat IL-17A is a homodimeric, non-glycosylated polypeptide containing 268 amino acids and has a molecular weight of 30 kDa.</p> <p>Nitro (ng/ml)</p> <p>IL-17A IL-17 IFN-gamma L-NAME</p> <p>Mechanisms through which IL-17 promotes cytokine-induced β-cell apoptosis.</p>	<p>P1031</p> <p>Size: 25 µg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 µg/µl.</p> <p>ED50: 30 ng/ml.</p>	<p>SCF Related</p>	
		<p>SCF, human recombinant protein</p> <p>Human SCF shows low activity on murine cells, while murine and rat SCF are fully active on human cells. The recombinant human SCF is a 18.4 kDa protein containing 165 amino acid residues.</p> <p>Total colonies (number)</p> <p>LPS TNF-alpha IL-17+TNF-alpha</p> <p>Control LPS</p> <p>Effect of in vitro exposure to recombinant NXP1H on muBM.</p>	<p>P1036</p> <p>Size: 10 µg, 50 µg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 µg/µl.</p> <p>ED50: < 2 ng/ml.</p>

SCF, murine recombinant protein**P1037**

Human SCF shows low activity on murine cells, while murine and rat SCF are fully active on human cells. The recombinant murine SCF is an 18.3 kDa protein containing 164 amino acid residues.



Effect of in vitro exposure to recombinant NXP1 on muBM.



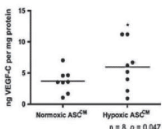
Size: 10 µg, 50 µg, 1 mg.

Soluble in sterile water: 0.1 - 1.0 µg/µl.

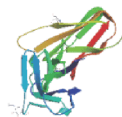
ED50: < 10 ng/ml.

VEGF-C, human recombinant protein**P1059**

VEGF-C is a 125 amino acid protein that lacks the N-terminal signal peptide. Human VEGF-C has about 85% homology with murine VEGF-C.



Hypoxia increased VEGF-C from ASCs.



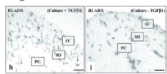
Size: 10 µg, 50 µg, 1 mg.

Soluble in 0.1% acetic acid: 0.1 - 1.0 mg/ml.

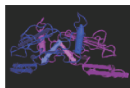
ED50: N/A.

TGF Related**TGF-β1, human recombinant (CHO cells) protein****P1039**

The recombinant human TGF-β1 is a 25.0 kDa protein containing two identical 112 amino acid polypeptide chains linked by a single disulfide bond.



Immunohistochemical localization and characterization of immune cells in the human pulp.



Size: 5 µg, 50 µg, 500 µg.

Soluble in water: 50 µg/ml.

ED50: < 0.05 ng/ml.

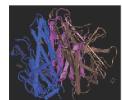
BAFF Related**BAFF, human recombinant protein****P1044**

The recombinant human BAFF is a soluble protein containing 153 amino acid residues with a N-terminal His-tag (MW: 19.335 kDa).

Table 1. BAFF and APRIL protein B-CLL cells from spontaneous apoptosis.

	No	No	No	No	No
Control	1	1	1	1	1
BAFF	0.09	0.09	0.03	0.2	0.03
APRIL	0.03	0.06	0.06	0.06	0.03
BAFF + APRIL	0.2	0.03	0.2	0.2	0.21

	19	21	22	23	Mean
1	1	1	1	1	1
0.2	0.79	0.6	0.43	0.59*	
0.03	0.06	0.29	0.16	0.22*	
0.2	0.6	0.75	0.7	0.72*	



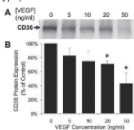
Size: 20 µg, 100 µg, 500 µg, 1 mg.

Soluble in water: 0.1 - 1.0 mg/ml.

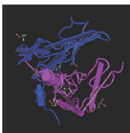
ED50: < 10 ng/ml.

VEGFs Related**VEGF165, human recombinant protein****P1041**

VEGF165 is the most abundant and potent isoform. The recombinant human VEGF is a 38.2 kDa homodimeric protein consisting of two 165 amino acid polypeptide chains.



Endothelial CD36 expression is regulated by VEGF and shear stress.

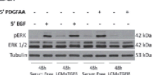


Size: 10 µg, 50 µg, 1 mg.

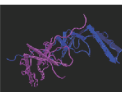
Soluble in water: 0.1 - 1.0 mg/ml.

PDGFs Related**PDGF-AA, murine recombinant protein****P1046**

The recombinant mouse PDGF-AA is a disulfide linked non-glycosylated homodimer comprised of 2 polypeptide chains of 126 amino acids, each with a dimeric molecular weight of 28.9 kDa.



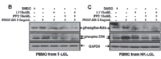
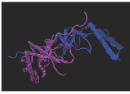
Cilia-related signaling is altered in myofibroblasts.

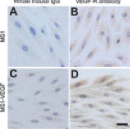
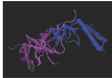


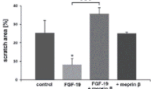
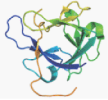
Size: 10 µg, 1 mg.

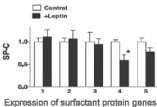

Soluble in water: 0.1 - 0.5 mg/ml.

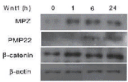
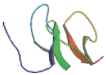
ED50: N/A.

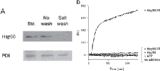
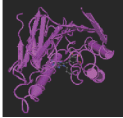
PDGF-BB, human recombinant protein	P1047
<p>The recombinant human PDGF-BB is a 24.3 kDa B chain homodimer protein formed by subunits of 109 amino acid residues.</p>  <p>PDGF-BB mediates downstream target Akt and ERK pathways activation.</p>	 <p>Size: 10 µg, 50 µg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 mg/ml.</p> <p>ED50: < 1 ng/ml.</p>

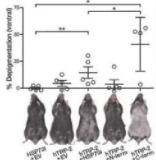
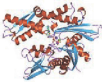
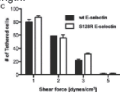
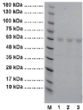

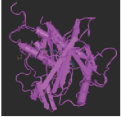
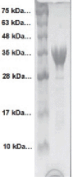
PDGF-BB, murine recombinant protein	P1048
<p>The recombinant murine PDGF-BB is a homodimeric and non-glycosylated polypeptide of 109 amino acids and having a molecular mass of 24.4 kDa.</p>  <p>VEGFR distribution in MS1 and MS1-VEGF cells.</p>	 <p>Size: 10 µg, 50 µg, 1 mg.</p> <p>Soluble in sterile 100mM acetic acid and 0.1% BSA: 0.1 - 1.0 mg/ml.</p> <p>ED50: < 2 ng/ml.</p>

FGF Related	HSP Related
FGF-19, human recombinant protein	P1050
<p>The recombinant human FGF-19 is a 21.8 kDa protein containing 195 amino acid residues.</p>  <p>FGF-19 is cleaved by meprin β, thereby altering its biological activity on keratinocyte proliferation/migration.</p>	 <p>Size: 25 µg, 100 µg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 mg/ml.</p> <p>ED50: 50 - 200 ng/ml.</p>

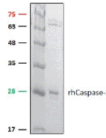
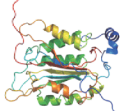
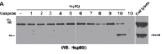
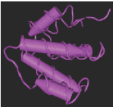
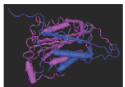
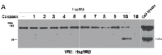
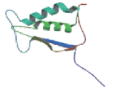
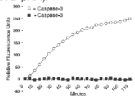
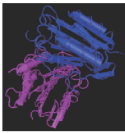

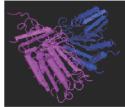
Leptin Related	
Leptin Receptor, human recombinant protein	P1063
<p>Lepr gene polymorphism is related to the levels of blood glucose, insulin, leptin and triglyceride. Deficiency of Lepr gene can directly lead to obesity.</p>  <p>Expression of surfactant protein genes SP-C.</p>	 <p>Size: 10 µg, 50 µg, 1 mg.</p> <p>Soluble in water and most aqueous buffers, below and above the isoelectric point.</p> <p>ED50: N/A.</p>

Wnt Related	
WNT-1, human recombinant protein	P1068
<p>WNT-1 is a 38.4 kDa and non-glycosylated protein containing 343 amino acid residues. Elevated levels of Wnt proteins are associated with tumorigenesis and present in numerous human breast cancers.</p>  <p>MSC80 cells treated with recombinant Wnt1 loads increase in MPZ, PMP22 and β-catenin proteins.</p>	 <p>Size: 10 µg, 50 µg, 1 mg.</p> <p>Soluble in water: 0.1 - 1.0 µg/µl.</p> <p>ED50: 1.5 - 2.5 ng/ml.</p>

Heat Shock Protein 90 (HSP90), human recombinant protein	P1070
<p>HSP90 assists other proteins to fold properly, stabilizes proteins against heat stress, and aids in protein degradation. HSP90 also stabilizes a lot of proteins required for tumor growth.</p>  <p>ATP hydrolysis by Hsp90 is required for CTA1 translocation from the ER.</p>	 <p>Size: 25 µg, 100 µg, 1 mg.</p> <p>Soluble: N/A.</p> <p>ED50: N/A.</p>

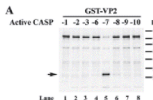
<p>Heat Shock Protein 70, human recombinant protein</p>	<p>P1071</p>	<p>Protein A Sepharose</p>	<p>P1089</p>
<p>The HSP70s are important to protein folding. The HSP70s help to protect cells from thermal or oxidative stress. HSP70s directly inhibits apoptosis.</p>  <p>A peptide within the C terminus of HSP70I is required for inducing depigmentation.</p>	 <p>Size: 25 µg, 100 µg, 1 mg. Soluble in water: > 40 mg/ml.</p>	<p>Protein A Sepharose beads display high chemical and physical stability as well as high flow rate, hydrophilicity and gel strength.</p>  <p>Cell-based flow binding assay with HL60 cells at physiological shear stress.</p> <p>Size: 1 ml, 5 ml, 25 ml, 100 ml.</p>	
<p>Protein Related</p>		<p>Protein A/G</p>	<p>P1090</p>  <p>The recombinant fusion protein A/G contains 6× His-tag on the N-terminus, five Ig-binding regions of protein A fusion with three Ig-binding region of protein G.</p>  <p>QDs, PECAM and VCAM enable fluorescence visualization of target proteins.</p> <p>Size: 1 mg, 5 mg, 25 mg, 100 mg, 1 g. Soluble in water: 5 mg/ml.</p>
<p>VEGFR2, human recombinant protein</p>	<p>P1080</p>  <p>Size: 10 µg, 100 µg. Soluble in sterile water: < 0.1 mg/ml. ED50: 10.0 ng/ml.</p>	<p>Protein A/G Sepharose</p>	<p>P1091</p> <p>Protein A/G Sepharose is prepared by covalently coupling recombinant Protein A/G to 6% cross-linked sepharose beads.</p> <p>Size: 1 ml, 5 ml, 25 ml, 100 ml.</p>
<p>Protein A (Liquid form)</p> <p>Protein A is a 42 kDa surface protein that can bind to immunoglobulins. Recombinant Protein A is a genetically engineered protein.</p>  <p>SDS-PAGE (12%) of Recombinant Protein A.</p>	<p>P1088</p> <p>Size: 10 mg, 25 mg, 100 mg, 1 g.</p>	<p>Protein G Sepharose</p>	<p>P1092</p> <p>Protein G-Sepharose beads are prepared by covalently coupling recombinant Protein G to 6% cross-linked sepharose beads.</p> <p>Size: 1 ml, 5 ml, 25 ml, 100 ml.</p>
		<p>Protein A-Agarose</p>	<p>P1094</p> <p>Protein A-Agarose beads are prepared by covalently coupling recombinant Protein A to 6% cross-linked agarose beads, the most popular resin for protein affinity purification methods. Protein A is a 42 kDa surface protein that can bind immunoglobulins.</p> <p>Size: 1 ml, 5 ml, 25 ml, 100 ml.</p>

Caspase Related

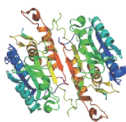
<p>Caspase-1, human recombinant proteinase</p>	<p>E1001</p>	<p>Caspase-1 is a prototypical member of the caspase-family of cysteine proteases. Caspase-1 exists in cells as an inactive 45 kDa proenzyme, and is routinely tested for its ability to enzymatically cleave Ac-YVAD-pNA or Ac-YVAD-AFC.</p> 	 <p>Size: 25 units, 100 units.</p> <p>Soluble in PBS containing 15% glycerol.</p>	<p>Caspase-4, human recombinant proteinase</p>	<p>E1004</p>	<p>Caspase-4 belongs to the caspase-family of cysteine proteases. The recombinant active human Caspase-4 was expressed in <i>E. coli</i>. The function of Caspase-4 is an inflammatory Caspase. It has a role in the immune system together with Caspase-1 and Caspase-5.</p>  <p>Caspase-cleavage assay was conducted by mixing purified His-HSP90β protein with purified active Caspase-1 to -10.</p>	 <p>Size: 25 units, 100 units.</p> <p>Soluble in PBS containing 15% glycerol.</p>
<p>Caspase-2, human recombinant proteinase</p>	<p>E1002</p>	<p>Caspase-2 belongs to the caspase-family of cysteine proteases. The recombinant active human Caspase-2 was expressed in <i>E. coli</i>. The active Caspase-2 preferentially cleaves Caspase-2 substrates (VDVAD-AFC or VDVAD-pNA).</p>	 <p>Size: 25 units, 100 units.</p> <p>Soluble in PBS containing 15% glycerol.</p>	<p>Caspase-5, human recombinant proteinase</p>	<p>E1005</p>	<p>Caspase-5 is a member of cysteine-aspartic acid protease that has a role in the immune system together with Caspase-1 and Caspase-4.</p>  <p>Caspase-cleavage assay was conducted by mixing purified His-HSP90β protein with purified active Caspase-1 to -10.</p>	 <p>Size: 25 units, 100 units.</p> <p>Soluble in PBS containing 15% glycerol.</p>
<p>Caspase-3, human recombinant proteinase</p>	<p>E1003</p>	<p>Caspase-3 is a major member of the caspase-family of cysteine proteases. The active Caspase-3 preferentially cleaves Caspase-3 substrates (DEVD-AFC or DEVD-pNA).</p>  <p>Kinetic plot of DEVD-NucView488 cleavage by Caspase-3.</p>	 <p>Size: 25 units, 100 units, 5 μg, 10 μg.</p> <p>Soluble in PBS containing 15% glycerol.</p>	<p>Caspase-6, human recombinant proteinase</p>	<p>E1006</p>	<p>Caspase-6 belongs to the caspase-family of cysteine proteases. The active Caspase-6 involves in the proteolysis of poly ADP-ribose polymerase. Caspase-6 can function as a downstream enzyme and is processed by Caspases-7, -8 and -10.</p>  <p>CASP-6-deficient mice have reduced pulmonary TNF-α production after sepsis.</p>	 <p>Size: 25 units, 100 units.</p> <p>Soluble in PBS containing 15% glycerol.</p>

Caspase-7, human recombinant proteinase**E1007**

Caspase-7 belongs to the caspase-family of cysteine proteases. The active Caspase-7 involves in the proteolysis of PARP.



CASP-7 cleaves VP2 at the site of 417DLDL2G421 in vitro.

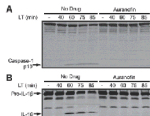


Size: 25 units, 100 units.

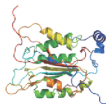
Soluble in PBS containing 15% glycerol.

Caspase-1, mouse recombinant proteinase**E1010**

Caspase-1 has been revealed to induce cell necrosis or pyroptosis. The recombinant active mouse Caspase-1 was expressed in *E. coli*.



Auranofin prevented LT-mediated inflammasome activation by targeting events downstream of MEK cleavage.

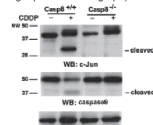


Size: 25 units, 100 units.

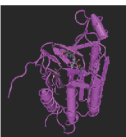
Soluble in PBS containing 15% glycerol.

Caspase-8, human recombinant proteinase**E1008**

Caspase-8 belongs to the caspase-family of cysteine proteases. The active Caspase-8 can activate Caspase-3 leading to degradation of various cellular target proteins during apoptosis.



FAS ligand-dependent caspase activation plays a role in CDDP-induced c-Jun cleavage.

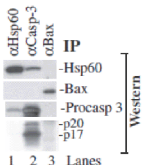


Size: 25 units, 100 units.

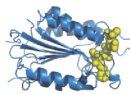
Soluble in PBS containing 15% glycerol.

Caspase-3 Proform, mouse recombinant proteinase**E1011**

Cascades of caspase activation have been shown to be crucial signal-transducing events in apoptosis. The recombinant Procaspase-3 was expressed in *E. coli*.



HSP60 interacts with Procaspase-3 but not Bax in BMD188-treated cells.

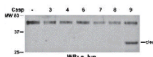


Size: 5 µg.

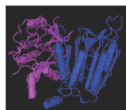
Soluble in PBS containing 15% glycerol.

Caspase-9, human recombinant proteinase**E1009**

Caspase-9 belongs to the caspase-family of cysteine proteases. The aspartic acid specific protease Caspase-9 has been connected to the mitochondrial death pathway. The recombinant active human Caspase-9 was expressed in *E. coli*.



Caspase cleavage reaction was performed by mixing purified recombinant c-Jun with purified recombinant Caspase-3, -4, -6, -7, -8 and -9.

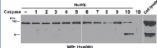


Size: 25 units, 100 units.

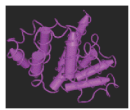
Soluble in PBS containing 15% glycerol.

Caspase-10/a, human recombinant proteinase**E1012**

Sequential activation of caspase plays a crucial role in the execution-phase of cell apoptosis. The recombinant active human Caspase-10/a was produced in *E. coli*.



Caspase-10 cleaves HSP90β in vitro.

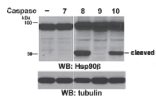


Size: 25 units, 100 units.

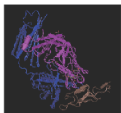
Soluble in PBS containing 15% glycerol.

Caspase-10/b, human recombinant proteinase**E1013**

Sequential activation of caspase plays a crucial role in the execution-phase of cell apoptosis. The recombinant active human Caspase-10/b was produced in *E. coli*.



Both Caspase-10 and -8 are required for UVB-induced HSP90 β cleavage in vivo.



Size: 25 units, 100 units.

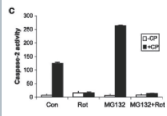
Soluble in PBS containing 15% glycerol.

Caspase Related

<p>Caspase-3 Substrate DEVD-AFC</p> <p>Ready-to-use fluorometric substrate for Caspase-3 (K_m: 9.7 μM) recognizes the amino acid sequence DEVD. Caspase-3 and related caspase activity can be quantified by fluorescent detection of free AFC.</p> <p>Desacyl ghrelin (DAG) prevents doxorubicin (DOX)-induced myocardial fibrosis and apoptosis.</p>	<p>G1001</p> <p>Size: 200 assays, 1000 assays.</p> <p>Formulation: In DMSO (1 mM).</p>	<p>Caspase-8 Substrate IETD-pNA</p> <p>Caspase-8 Substrate IETD-pNA is a ready-to-use colorimetric substrate for FLICE/Caspase-8 and its related caspases which recognize amino acid sequence-IETD.</p> <p>I-83 cells were treated with VPA (valproic acid) alone or in combination with LPA (lysophosphatidic acid).</p>	<p>G1004</p> <p>Size: 200 assays, 1000 assays.</p> <p>Formulation: In DMSO (4 mM).</p>
<p>Caspase-3 Substrate DEVD-pNA</p> <p>Caspase-3 Substrate DEVD-pNA is a cost-effective alternative way for carrying out large quantities of caspase assays.</p> <p>HIF-1 promotes apoptosis during gut ischemia-reperfusion (I/R) injury.</p>	<p>G1002</p> <p>Size: 200 assays, 1000 assays.</p> <p>Formulation: In DMSO (4 mM).</p>	<p>Caspase-6 Substrate VEID-AFC</p> <p>Caspase-6 Substrate VEID-AFC is a ready-to-use fluorometric substrate for Caspase-6 and its related caspases which recognize amino acid sequence-VEID.</p> <p>Impaired transcriptional up-regulation and enzymatic activity of Caspase-6 in p85 β-deficient T cells.</p>	<p>G1005</p> <p>Size: 200 assays, 1000 assays.</p> <p>Formulation: In DMSO (1 mM).</p>
<p>Caspase-8 Substrate IETD-AFC</p> <p>Caspase-8 Substrate IETD-AFC is a ready-to-use fluorometric substrate for FLICE/Caspase-8 and its related caspases which recognize amino acid sequence-IETD.</p> <p>Fluorometric analysis of Caspase-3, Caspase-8 and Caspase-9 activities in MNV-1-infected RAW264.7 cells collected at serial time points.</p>	<p>G1003</p> <p>Size: 200 assays, 1000 assays.</p> <p>Formulation: In DMSO (2 mM).</p>	<p>Caspase-6 Substrate VEID-pNA</p> <p>Caspase-6 Substrate VEID-pNA is a ready-to-use colorimetric substrate for Caspase-6/Mch2 and its related caspases which recognize amino acid sequence-VEID.</p> <p>Cell extracts were prepared and assayed for caspase activity using the Caspase-6 Substrate VEID-pNA.</p>	<p>G1006</p> <p>Size: 200 assays, 1000 assays.</p> <p>Formulation: In DMSO (4 mM).</p>

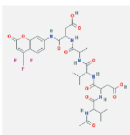
Caspase-2 Substrate VDVAD-AFC

Caspase-2 Substrate VDVAD-AFC is a ready-to-use fluorometric substrate for caspases which recognize amino acid sequence-VDVAD.



Effect of MG132 and rotiferin on caspase activation.

G1007

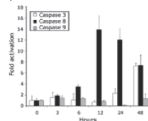


Size: 200 assays, 1000 assays.

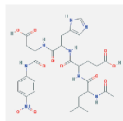
Formulation: In DMSO (1 mM).

Caspase-9 Substrate LEHD-pNA

Caspase-9 Substrate LEHD-pNA is a ready-to-use colorimetric substrate for Caspase-9/Mch6 and its related caspases which recognize amino acid sequence-LEHD.



Activity of Caspase-3, -8 and -9 was measured by colorimetric substrate assays with Caspase-9 Substrate LEHD-pNA.

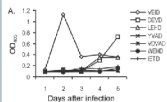


Size: 200 assays, 1000 assays.

Formulation: In DMSO (4 mM).

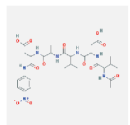
Caspase-2 Substrate VDVAD-pNA

The Caspase-2 Substrate DEVD-AFC is a ready-to-use colorimetric substrate for Caspase-2/Ich-1 and its related caspases which recognize amino acid sequence-VDVAD.



Cell extracts were prepared and assayed for caspase activity using the Caspase-2 Substrate VDVAD-pNA.

G1008

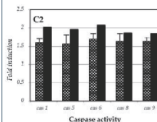


Size: 200 assays, 1000 assays.

Formulation: In DMSO (4 mM).

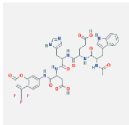
Caspase-5 Substrate WEHD-AFC

The Caspase-5 Substrate WEHD-AFC is a ready-to-use fluorometric substrate for Caspase-1, -4, -5 and related caspases which recognize amino acid sequence-WEHD.



Caspase activity was measured by Caspase-5 Substrate WEHD-AFC.

G1011

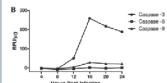


Size: 200 assays, 1000 assays.

Formulation: In DMSO (1 mM).

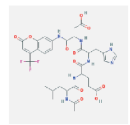
Caspase-9 Substrate LEHD-AFC

The Caspase-9 Substrate LEHD-AFC is a ready-to-use fluorometric substrate for Caspase-9/Mch-6 and its related caspases which recognize amino acid sequence-LEHD.



Fluorometric analysis of Caspase-3, -8 and -9 activities in MNV-1-infected RAW264.7 cells collected at serial time points.

G1009

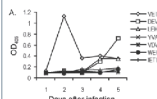


Size: 200 assays, 1000 assays.

Formulation: In DMSO (1 mM).

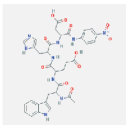
Caspase-5 Substrate WEHD-pNA

Caspase-5 Substrate WEHD-pNA is a ready-to-use colorimetric substrate for Caspase-5 and its related caspases which recognize amino acid sequence-WEHD.



Cell extracts were prepared and assayed for caspase activity by the Caspase-5 Substrate WEHD-pNA.

G1012

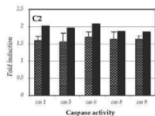


Size: 200 assays, 1000 assays.

Formulation: In DMSO (4 mM).

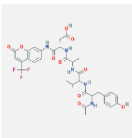
**Caspase-1 Substrate
YVAD-AFC**

The Caspase-1 Substrate YVAD-AFC is a ready-to-use fluorometric substrate for Caspase-1/ICE and its related caspases which recognize amino acid sequence-YVAD.



Caspase activity was measured by Caspase-1 Substrate YVAD-AFC.

G1013

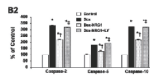


Size: 200 assays, 1000 assays.

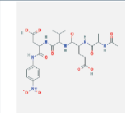
Formulation: In DMSO (1 mM).

**Caspase-10 Substrate
AEVD-pNA**

Caspase-10 Substrate AEVD-pNA is a ready-to-use colorimetric substrate for caspases which recognize amino acid sequence-AEVD.



Caspase activation in Dox-treated NRVM (neonatal rat ventricular myocytes).

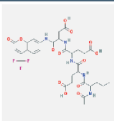


Size: 200 assays, 1000 assays.

Formulation: In DMSO (4 mM).

**Caspase-13 Substrate
LEED-AFC**

Caspase-13 Substrate LEED-AFC is a ready-to-use fluorometric substrate for Caspase-13 and its related caspases which recognize amino acid sequence-LEED.



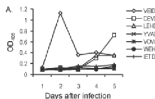
G1017

Size: 200 assays, 1000 assays.

Formulation: In DMSO (4 mM).

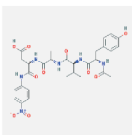
**Caspase-1 Substrate
YVAD-pNA**

Caspase-1 Substrate YVAD-pNA is a ready-to-use colorimetric substrate for Caspase-1/ICE and its related caspases which recognize amino acid sequence-YVAD.



Cell extracts were prepared and assayed for caspase activity by the Caspase-1 Substrate YVAD-pNA.

G1014

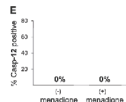


Size: 200 assays, 1000 assays.

Formulation: In DMSO (4 mM).

**Caspase-12 Substrate
ATAD-AFC**

Caspase-12 Substrate ATAD-AFC is a ready-to-use fluorometric substrate for caspases which recognize amino acid sequence-ATAD.



Caspase activation with menadione.

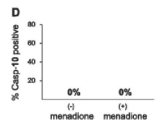
G1018

Size: 200 assays, 1000 assays.

Formulation: In DMSO (4 mM).

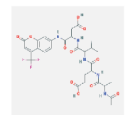
**Caspase-10 Substrate
AEVD-AFC**

Caspase-10 Substrate AEVD-AFC is a ready-to-use fluorometric substrate for AEVD-dependent caspases.



Caspase activation with menadione.

G1015

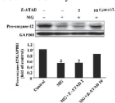


Size: 200 assays, 1000 assays.

Formulation: In DMSO (1 mM).

**Caspase-12 Inhibitor
Z-ATAD-FMK**

Z-ATAD-FMK is a specific Caspase-12 inhibitor. It suppresses cell apoptosis and also inhibits Caspase-12 activity.



Effects of Z-ATAD-FMK on Caspase-12 activation after the treatment with MG.

G1019

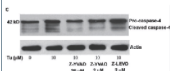
Size: 20 μ l (10 mM), 100 μ l (2 mM).

Formulation: In DMSO (2 mM).

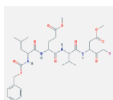
Caspase-4 Inhibitor Z-LEVD-FMK

G1020

Z-LEVD-FMK is a specific Caspase-4 inhibitor that suppresses apoptosis activity.



Caspase-4 activation is reduced by co-incubation with Caspase-4 inhibitor Z-LEVD-FMK and Caspase-1 and -4 inhibitor Z-YVAD-FMK.



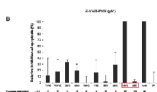
Size: 20 μ l (10 mM), 100 μ l (2 mM).

Formulation: In DMSO (10 mM).

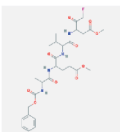
Caspase-10 Inhibitor AEVD-FMK

G1021

Z-AEVD-FMK is a cell-permeable and Irreversible Caspase-10 inhibitor that inhibits apoptosis with K_i of 320 nM.



Effect of caspase-specific inhibitors on BoHV-4-induced apoptosis.



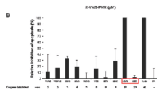
Size: 20 μ l (10 mM), 100 μ l (2 mM).

Formulation: In DMSO (2 mM).

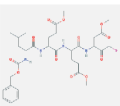
Caspase-13 Inhibitor LEED-FMK

G1022

LEED-FMK is a cell-permeable synthetic peptide inhibitor of Caspase-13 that suppresses apoptosis.



Effect of caspase-specific inhibitors on BoHV-4-induced apoptosis.



Size: 20 μ l (10 mM), 100 μ l (2 mM).

Formulation: In DMSO (10 mM).

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