

Product Name: SNX-2112 Revision Date: 01/10/2021 Product Data Sheet

SNX-2112

	Contraction of the second	
Cat. No.:	A4068	H ₂ N O
CAS No.:	9 <mark>081</mark> 12-43-6	С С С Н
Formula:	C23H27F3N4O3	
M.Wt:	464.48	
Synonyms:		N
Target:	Proteases	N
Pathway:	HSP	
Storage:	Store at -20°C	
	<u>B10</u>	
Solvent & S	Solubility	P Internet

≥23.05 mg/mL in DMSO; insoluble in H2O; ≥9.6 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg
		1 mM	2.1529 mL	10.7647 mL	21.5295 mL
		5 mM	0.4306 mL	2.1529 mL	4.3059 mL
		10 mM	0.2153 mL	1.0765 mL	2.1529 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	Hsp90 inhibitor,ATP-competitve,potent and selective		
IC ₅₀ & Target	30 nM (Ka) (Hsp90α), 30 nM (Ka) (Hsp90β)		
In Vitro	Cell Viability Assay		
	Cell Line:	nu/nu athymic BALB/c female mice	
	Preparation method:	The solubility of this compound in DMSO is > 23.05 mg/mL. General tips for	
		obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes	
		and/or shake it in the ultrasonic bath for a while. Stock solution can be stored	
		below -20°C for several months.	
	Reacting conditions:	IC50: 10-50 nmol/L	
		1 www.apexbt.com	

	Applications:	Treatment of BT-474 cells with 1 µmol/L SNX-2112 resulted in down-regulation				
		of HER2 expression within 3 to 6 h of drug exposure with near-complete loss of				
	APERAIN	HER2 expression by 10 h. SNX-2112 induced Hsp90 client degradation,				
		inhibited Erk and Akt activation, and induced apoptosis in				
		HER2-overexpressing cells. In a panel of breast, lung, and ovarian cancer cell				
		lines, SNX-2112 inhibited cell proliferation with IC50 values ranging from 10 to				
		50 nmol/L. In BT-474 cells (HER2 amplified, breast cancer), the				
		antiproliferative effect of SNX-2112 was associated with hypophosphorylation				
		of Rb, arrest in G1, and modest levels of apoptosis. SNX-2112 induced				
		autophagy in a time- and dose-dependent manner via Akt/mTOR/p70S6K				
		inhibition. SNX-2112 induced significant apoptosis and autophagy in human				
		melanoma A-375 cells. SNX-2112 (72 h) induced apoptosis in human chronic				
		leukemia K562 cells with the IC50 of 0.92 μM.				
	Animal experiment					
In Vivo	Animal models:	K562-NOD/SCID mice				
	Dosage form:	6 mg/kg, tail vain injection from days 5–9 and days 12–16				
	Applications:	SNX-2112 showed therapeutic effect on NOD/SCID mice inoculated with K562				
		cells. SNX-2112 treatment prolonged survival of NOD/SCID mice inoculated				
	with K562 cells.					
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may				
		slightly differ with the theoretical value. This is caused by an experimental				
		system error and it is normal.				

Product Citations

APE BIO

1. Li QQ, Hao JJ,et al. "Proteomic analysis of proteome and histone post-translationalmodifications in heat shock protein 90 inhibition-mediated bladder cancertherapeutics." Sci Rep. 2017 Mar 15;7(1):201.PMID:28298630

See more customer validations on www.apexbt.com.

References

[1]. Chandarlapaty S, Sawai A, Ye Q, et al. SNX2112, a synthetic heat shock protein 90 inhibitor, has potent antitumor activity against HER kinase–dependent cancers[J]. Clinical Cancer Research, 2008, 14(1): 240-248.

[2]. Liu K S, Liu H, Qi J H, et al. SNX-2112, an Hsp90 inhibitor, induces apoptosis and autophagy via degradation of Hsp90 client proteins in human melanoma A-375 cells[J]. Cancer letters, 2012, 318(2): 180-188.

[3]. Jin L, Xiao C L, Lu C H, et al. Transcriptomic and proteomic approach to studying SNX - 2112 - induced K562 cells apoptosis and anti - leukemia activity in K562 - NOD/SCID mice[J]. FEBS letters, 2009, 583(12): 1859-1866.

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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