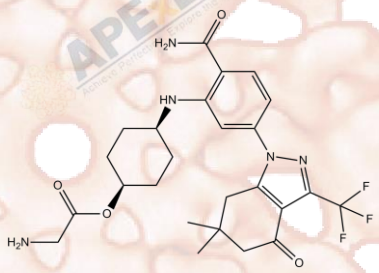
Product Data Sheet

PF-04929113 (SNX-5422)

Cat. No.: A4065
CAS No.: 908115-27-5
Formula: C25H30F3N5O4
M.Wt: 521.5
Synonyms:
Target: Proteases
Pathway: HSP
Storage: Store at -20°C



Solvent & Solubility

In Vitro

≥23.85 mg/mL in DMSO with gentle warming; insoluble in H2O; insoluble in EtOH

Preparing Stock Solutions

Concentration \ Mass / Solvent	1mg	5mg	10mg
1 mM	1.9175 mL	9.5877 mL	19.1755 mL
5 mM	0.3835 mL	1.9175 mL	3.8351 mL
10 mM	0.1918 mL	0.9588 mL	1.9175 mL

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

Biological Activity

Shortsummary	Hsp90 inhibitor,potent and selective
IC_{50} & Target	50 nM (Hsp90)

In Vitro

Cell Viability Assay

Cell Line:	MCF-7, SW620, K562, SK-MEL-5 and A375 cancer cell lines
Preparation method:	The solubility of this compound in DMSO is >10 mM. 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:	0 ~ 300 nM; 72 or 144 hrs

	Applications:	In a broad range of cancer cell lines (MCF-7, SW620, K562, SK-MEL-5 and A375 cells), PF-04929113 showed potent antiproliferative activity, with the IC50 values being 16, 19, 23, 25 and 51 nM, respectively.
In Vivo	**Animal experiment**	
	Animal models:	Fox Chase SCID mice (6 ~ 7 weeks old) inoculated subcutaneously with 5 × 106 MM.1S cells
	Dosage form:	20 or 40 mg/kg; p.o.; 3 times per week, for 3 weeks
	Applications:	PF-04929113 inhibited human MM cell growth and angiogenesis in vivo.
	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

See more customer validations on www.apexbt.com.

References

[1]. Huang KH, Veal JM, Fadden RP, Rice JW, Eaves J, Strachan JP, Barabasz AF, Foley BE, Barta TE, Ma W, Silinski MA, Hu M, Partridge JM, Scott A, DuBois LG, Freed T, Steed PM, Ommen AJ, Smith ED, Hughes PF, Woodward AR, Hanson GJ, McCall WS, Markworth CJ, Hinkley L, Jenks M, Geng L, Lewis M, Otto J, Pronk B, Verleysen K, Hall SE. Discovery of novel 2-aminobenzamide inhibitors of heat shock protein 90 as potent, selective and orally active antitumor agents. J Med Chem. 2009 Jul 23;52(14):4288-305.
[2]. Okawa Y, Hideshima T, Steed P, Vallet S, Hall S, Huang K, Rice J, Barabasz A, Foley B, Ikeda H, Raje N, Kiziltepe T, Yasui H, Enatsu S, Anderson KC. SNX-2112, a selective Hsp90 inhibitor, potently inhibits tumor cell growth, angiogenesis, and osteoclastogenesis in multiple myeloma and other hematologic tumors by abrogating signaling via Akt and ERK. Blood. 2009 Jan 22;113(4):846-55.

Caution

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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