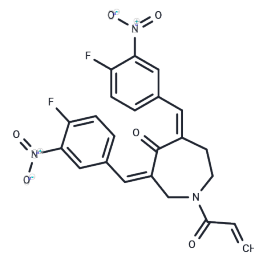


VLX1570

Chemical Properties

CAS No. : 1431280-51-1
 Formula: C₂₃H₁₇F₂N₃O₆
 Molecular Weight: 469.39
 Storage: Store at low temperature
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	VLX1570 is a competitive inhibitor of proteasome DUB activity, with an IC ₅₀ ranging from 4.2 μM to 8.6 μM, and exhibits potent inhibition of USP14.
Targets(IC ₅₀)	DUB

Solubility Information

Solubility	DMSO: 32 mg/mL (68.17 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1304 mL	10.6521 mL	21.3042 mL
5 mM	0.4261 mL	2.1304 mL	4.2608 mL
10 mM	0.213 mL	1.0652 mL	2.1304 mL
50 mM	0.0426 mL	0.213 mL	0.4261 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wang X et al. Synthesis and evaluation of derivatives of the proteasome deubiquitinase inhibitor b-AP15. Chem Biol Drug Des, 2015 Nov, 86(5):1036-48.

Xin Wang et al. The proteasome deubiquitinase inhibitor VLX1570 shows selectivity for ubiquitin-specific protease-14 and induces apoptosis of multiple myeloma cells. Sci Rep, 2016 Jun 6

Vogel RI et al. USP14 is a predictor of recurrence in endometrial cancer and a molecular target for endometrial cancer treatment. Oncotarget. 2016 Apr 18.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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