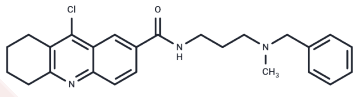
Data Sheet (Cat.No.T15464)

TargetMol

HBX 19818

Chemical Properties



CAS No. : 1426944-49-1

Formula: C25H28ClN3O

Molecular Weight: 421.96

Storage: 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	HBX 19818 is a specific ubiquitin-specific protease 7 (USP7) inhibitor (IC50: 28.1 μM).
Targets(IC50)	DUB
In vitro	HBX 19818 inhibits HCT116 proliferation in a dose-dependent manner (IC50: ~2 μM). HBX 19818 selectively inhibits USP7 (IC50: ~6 μM in human cancer cells). HBX 19818 (1.5, 4, 12, 36, or 100 μM) inhibits USP7 deubiquitination of polyubiquitinated p53. HBX 19818 displays no effects on USP8, USP5, USP10, CYLD, UCH-L1, UCH-L3, or on SENP1, a SUMO protease (IC50s of > 200 μM). HBX 19818 (30 μM) also causes significantly higher levels of Mdm2 polyubiquitinated forms in USP7-overproducing HEK293 cells than those in DMSO-treated control cells.

Solubility Information

Solubility	DMSO: 20 mg/mL (47.4 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.74 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3699 mL	11.8495 mL	23.6989 mL
5 mM	0.474 mL	2.3699 mL	4.7398 mL
10 mM	0.237 mL	1.1849 mL	2.3699 mL
50 mM	0.0474 mL	0.237 mL	0.474 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

Reverdy C, et al. Discovery of specific inhibitors of human USP7/HAUSP deubiquitinating enzyme. Chem Biol. 2012 Apr 20;19(4):467-77.