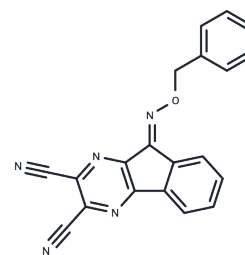


DUB-IN-1

Chemical Properties

CAS No. :	924296-18-4
Formula:	C ₂₀ H ₁₁ N ₅ O
Molecular Weight:	337.33
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	DUB-IN-1, with an IC ₅₀ value of 0.24 for USP8, is an active inhibitor of ubiquitin-specific protease (USPs).
Targets(IC ₅₀)	DUB
In vitro	DUBs-IN-1 is inactive toward USP7 (IC ₅₀ , >100 μM). DUBs-IN-1 and its analogs reduce the viability of HCT116 colon and PC-3 prostate cancer cell lines with IC ₅₀ s ranging from 0.5 μM to 1.5 μM. DUBs-IN-1 (22 f) is an active inhibitor of ubiquitin-specific proteases, with an IC ₅₀ of 0.24 μM for USP8.

Solubility Information

Solubility	DMSO: 45 mg/mL (133.4 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (5.93 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9645 mL	14.8223 mL	29.6446 mL
5 mM	0.5929 mL	2.9645 mL	5.9289 mL
10 mM	0.2964 mL	1.4822 mL	2.9645 mL
50 mM	0.0593 mL	0.2964 mL	0.5929 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

Colombo M, et al. Synthesis and biological evaluation of 9-oxo-9H-indeno[1,2-b]pyrazine-2,3-dicarbonitrile analogues as potential inhibitors of deubiquitinating enzymes. ChemMedChem. 2010 Apr 6;5(4):552-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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