

USP8-IN-2

Chemical Properties

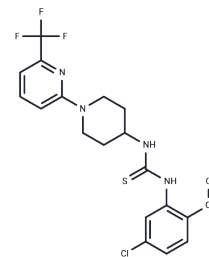
CAS No. : 2477651-11-7

Formula: C₁₉H₂₀ClF₃N₄O₅

Molecular Weight: 444.9

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	USP8-IN-2 is a potent inhibitor of the deubiquitinating enzymes USP7 and USP8, with an IC ₅₀ of 4.0 μM against USP8D. USP8-IN-2 is a potential compound for the treatment of cancer and viral infections.
Targets(IC ₅₀)	DUB
In vitro	USP8-IN-3 inhibits the proliferation of H1957 cells, with a GI ₅₀ of 24.93 μM[1].

Solubility Information

Solubility	DMSO: 27.5 mg/mL (61.81 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 (4.5 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	2.2477 mL	11.2385 mL	22.477 mL
5 mM	0.4495 mL	2.2477 mL	4.4954 mL
10 mM	0.2248 mL	1.1238 mL	2.2477 mL
50 mM	0.045 mL	0.2248 mL	0.4495 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

Li zhiyun, et al. Preparing method and application of USP8 inhibitor: China, CN111138358 A. 2020-05-12.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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