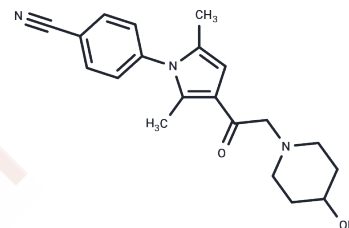


IU1-248

Chemical Properties

CAS No. : 2307472-03-1
Formula: C₂₀H₂₃N₃O₂
Molecular Weight: 337.42
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	IU1-248 is a derivative of IU1. IU1-248 is a potent and selective USP14 inhibitor with an IC ₅₀ of 0.83µM[1].
Targets(IC50)	DUB
In vitro	IU1-248 exhibits an IC ₅₀ value of 0.83µM toward USP14, which is 10-fold more potent than that of IU1 (IC ₅₀ =12.25 µM)[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (237.09 mM),Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (9.78 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	2.9637 mL	14.8183 mL	29.6367 mL
5 mM	0.5927 mL	2.9637 mL	5.9273 mL
10 mM	0.2964 mL	1.4818 mL	2.9637 mL
50 mM	0.0593 mL	0.2964 mL	0.5927 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

Yiwei Wang, et al. Small molecule inhibitors reveal allosteric regulation of USP14 via steric blockade. Cell Res. 2018 Dec;28(12):1186-1194.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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