

USP15-IN-1

Chemical Properties

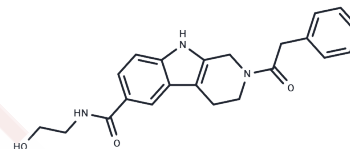
CAS No. : 2260826-16-0

Formula: C₂₂H₂₃N₃O₃

Molecular Weight: 377.44

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	USP15-IN-1 is a potent USP15 inhibitor (IC ₅₀ is 3.76 μ M) with high antiproliferative activity against non-small cell lung cancer and leukemia cells. As an interacting protein of cGAS, USP15 promotes cGAS to recognize DNA and activate downstream signaling pathways.
Targets(IC ₅₀)	DUB
In vitro	USP15-IN-1 (0.001-5 μ M; 48 h) demonstrates significant inhibitory effects on the proliferation of non-small cell lung carcinoma and leukemia cells, as reported in.[1]

Solubility Information

Solubility	DMSO: 150 mg/mL (397.41 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: 1 mg/mL (2.65 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	2.6494 mL	13.2471 mL	26.4943 mL
5 mM	0.5299 mL	2.6494 mL	5.2989 mL
10 mM	0.2649 mL	1.3247 mL	2.6494 mL
50 mM	0.053 mL	0.2649 mL	0.5299 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

Chen Yihua, et al. The tetrahydro-beta-carboline micromolecular organic compound and its derivative and medical usage of a kind of hydroxyl substitution. CN108727370A

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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