

HDACs/mTOR Inhibitor 1

Chemical Properties

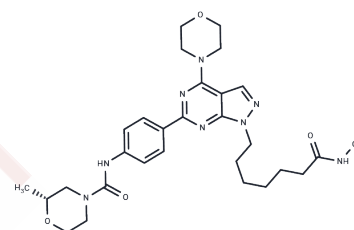
CAS No. : 2271413-06-8

Formula: C₂₈H₃₈N₈O₅

Molecular Weight: 566.65

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	HDACs/mTOR Inhibitor 1 is a dual HDAC and mammalian target of Rapamycin (mTOR) inhibitor for treating hematologic malignancies, with IC ₅₀ values of 0.19 nM, 1.8 nM, 1.2 nM, and >500 nM for HDAC1, HDAC6, mTOR, and PI3K α , respectively.
Targets(IC ₅₀)	Apoptosis,HDAC,mTOR
In vitro	HDACs/mTOR Inhibitor 1 stimulates cell cycle arrest in the G ₀ /G ₁ phase and induces tumor cell apoptosis with low toxicity in vivo.

Solubility Information

Solubility	DMSO: 32.5 mg/mL (57.35 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 (3.53 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	1.7648 mL	8.8238 mL	17.6476 mL
5 mM	0.353 mL	1.7648 mL	3.5295 mL
10 mM	0.1765 mL	0.8824 mL	1.7648 mL
50 mM	0.0353 mL	0.1765 mL	0.353 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 Y, et al. Discovery of a Novel Dual Histone Deacetylases (HDACs) and Mammalian Target of Rapamycin (mTOR) Target Inhibitor as a Promising Strategy for Cancer Therapy. J Med Chem. 2019 Jan 10.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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