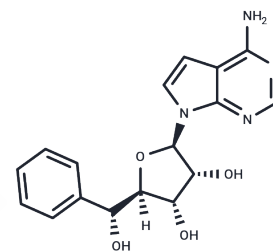


LLY-283

Chemical Properties

CAS No. : 2040291-27-6
 Formula: C₁₇H₁₈N₄O₄
 Molecular Weight: 342.35
 Storage: Store at low temperature
 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	LLY-283 is a potent, selective, and oral protein arginine methyltransferase 5 (PRMT5) inhibitor, exhibiting an IC ₅₀ of 22 nM and a K _d of 6 nM for the PRMT5:MEP50 complex, and demonstrates antitumor activity.
Targets(IC ₅₀)	Histone Methyltransferase
In vitro	LLY-283 is a potent, oral, and selective arginine methyltransferase 5 (PRMT5) inhibitor, with an IC ₅₀ of 22 nM in vitro and 25 nM in cells, and a K _d of 6 nM for the PRMT5:MEP50 complex in vitro; LLY-283 inhibits A375 cell proliferation with an IC ₅₀ of 46 nM[1].
In vivo	LLY-283 administered orally at a dose of 20 mg/kg daily significantly inhibits tumor growth in A375 cell-bearing mice over a 28-day treatment period[1].

Solubility Information

Solubility	H ₂ O: 3.57 mg/mL (10.43 mM), Sonication and heating to 60°C are recommended. DMSO: 112.5 mg/mL (328.61 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: 4 mg/mL (11.68 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	2.921 mL	14.6049 mL	29.2099 mL
5 mM	0.5842 mL	2.921 mL	5.842 mL
10 mM	0.2921 mL	1.4605 mL	2.921 mL
50 mM	0.0584 mL	0.2921 mL	0.5842 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

Zahid Q. Bonday, et al. LLY-283, a Potent and Selective Inhibitor of Arginine Methyltransferase 5, PRMT5, with Antitumor Activity. ACS Med. Chem. Lett., 2018, 9 (7), pp 612-617.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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