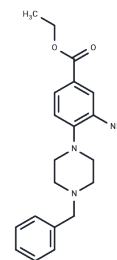


DCLX069

Chemical Properties

CAS No. : 792946-69-1
 Formula: C₂₀H₂₅N₃O₂
 Molecular Weight: 339.43
 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	DCLX069 is a selective protein arginine methyltransferase 1 (PRMT1) inhibitor with an IC ₅₀ value of 17.9 μM, occupying the SAM binding pocket to exert its inhibitory effect. It effectively blocks cell proliferation in breast cancer, liver cancer, and acute myeloid leukemia cell lines.
Targets(IC ₅₀)	Histone Methyltransferase

Solubility Information

Solubility	DMSO: 60 mg/mL (176.77 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 (5.89 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	2.9461 mL	14.7306 mL	29.4612 mL
5 mM	0.5892 mL	2.9461 mL	5.8922 mL
10 mM	0.2946 mL	1.4731 mL	2.9461 mL
50 mM	0.0589 mL	0.2946 mL	0.5892 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

Yiqian Xie, et al. Virtual screening and biological evaluation of novel small molecular inhibitors against protein arginine methyltransferase 1 (PRMT1). Org Biomol Chem. 2014 Dec 21;12(47):9665-73.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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