

TP-064

Chemical Properties

CAS No. : 2080306-20-1

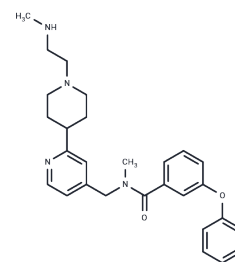
Formula: C₂₈H₃₄N₄O₂

Molecular Weight: 458.6

Store at low temperature

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	TP-064 is a potent and selective PRMT4 inhibitor, featuring an IC ₅₀ < 10nM for methylation of H3 (1-25) and over 100-fold selectivity compared to other histone methyltransferases and non-epigenetic targets. It inhibits the methylation of MED12 in cells with an IC ₅₀ of 43 nM.
Targets(IC ₅₀)	Histone Methyltransferase

Solubility Information

Solubility	DMSO: 50 mg/mL (109.03 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: 4 mg/mL (8.72 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	2.1805 mL	10.9027 mL	21.8055 mL
5 mM	0.4361 mL	2.1805 mL	4.3611 mL
10 mM	0.2181 mL	1.0903 mL	2.1805 mL
50 mM	0.0436 mL	0.2181 mL	0.4361 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

Kazuhide Nakayama, et al. TP-064, a potent and selective small molecule inhibitor of PRMT4 for multiple myeloma. *Oncotarget*. 2018 Apr 6;9(26):18480-18493.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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