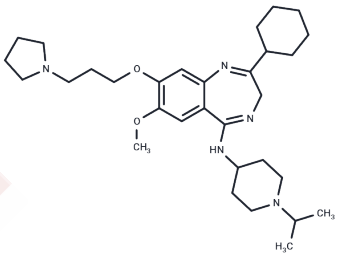
Data Sheet (Cat.No.T11185)

TargetMol

EML741

Chemical Properties



CAS No. : 2328074-38-8

Formula: C31H49N5O2

Molecular Weight: 523.75

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	EML741 also inhibits DNMT1 (IC50, 3.1 μM), with no effect on DNMT3a or DNMT3b. EML741 exhibits low cell toxicity, and is membrane permeable and blood-brain barrier penetrated. EML741 is a histone lysine methyltransferase G9a/GLP inhibitor, with an IC50 of 23 nM, Kd of 1.13 μM for G9a.
Targets(IC50)	Histone Methyltransferase
In vitro	EML741 ?shows a similar high inhibition potency against G9a (97%, 98% inhibition at 10 μM and 25 μM, respectively) and GLP (95%, 98% inhibition at 10 μM and 25 μM, respectively).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9093 mL	9.5465 mL	19.0931 mL
5 mM	0.3819 mL	1.9093 mL	3.8186 mL
10 mM	0.1909 mL	0.9547 mL	1.9093 mL
50 mM	0.0382 mL	0.1909 mL	0.3819 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

Milite, et al. Discovery of a Novel Chemotype of Histone Lysine Methyltransferase EHMT1/2 (GLP/G9a) Inhibitors: Rational Design, Synthesis, Biological Evaluation, and Co-crystal Structure. J Med Chem. 2019 Mar 14;62(5):2666-2689.

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