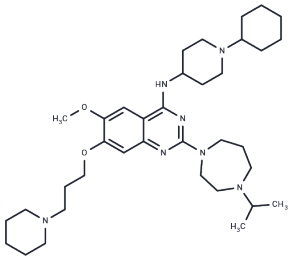
Data Sheet (Cat.No.TQ0232)

TargetMol

UNC0646

Chemical Properties



CAS No. : 1320288-17-2

Formula: C36H59N7O2

Molecular Weight: 621.9

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	UNC0646 is a potent and selective inhibitor of the homologous protein lysine methyltransferases G9a and GLP (IC50s: 6 nM/15 nM for G9a/GLP). UNC0646(UNC 0646) potently blocks G9a/GLP methyltransferase activity in cells (IC50: 10 nM in MCF7 cells) and exhibits low cellular toxicity (EC50: 4.7 μM in MCF7 cells).
Targets(IC50)	Histone Methyltransferase

Solubility Information

Solubility	DMSO: 30 mg/mL (48.24 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 (6.43 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.608 mL	8.0399 mL	16.0798 mL
5 mM	0.3216 mL	1.608 mL	3.216 mL
10 mM	0.1608 mL	0.804 mL	1.608 mL
50 mM	0.0322 mL	0.1608 mL	0.3216 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

Liu F, et al. Optimization of cellular activity of G9a inhibitors 7-aminoalkoxy-quinazolines. J Med Chem. 2011 Sep 8; 54(17):6139-50.

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