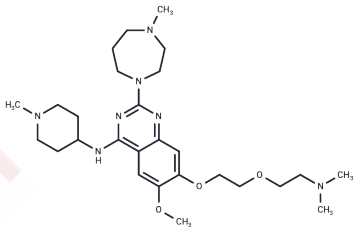
# Data Sheet (Cat.No.T17204)

TargetMol

UNC0321

## Chemical Properties



CAS No. : 1238673-32-9

Formula: C27H45N7O3

Molecular Weight: 515.69

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 | UNC0321 is an effective inhibitor of histone methyltransferase G9a with a Ki of 63 pM and with IC50s 9 nM and 6 nM in ECSD and CLOT assays. UNC0321 inhibits GLP with IC50s of 15 nM and 23 nM in ECSD and CLOT assays. |
| Targets(IC50) | Apoptosis,Histone Methyltransferase,Glucagon Receptor |
| In vitro | UNC0321 is inactive against SET7/9, SET8/PreSET7, PRMT3 and JMJD2E[1]. UNC0321 reduces H3K9me2 levels in MDA-MB-231 cells with an IC50 of 11 μM[2]. |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 3.33 mg/mL (6.46 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (1.94 mM),Sonication is recommended.<br>*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 | 1.9391 mL | 9.6957 mL | 19.3915 mL |
| 5 mM | 0.3878 mL | 1.9391 mL | 3.8783 mL |
| 10 mM | 0.1939 mL | 0.9696 mL | 1.9391 mL |
| 50 mM | 0.0388 mL | 0.1939 mL | 0.3878 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. Protein lysine methyltransferase G9a inhibitors: design, synthesis, and structure activity relationships of 2,4-diamino-7-aminoalkoxy-quinazolines. J Med Chem. 2010 Aug 12;53(15):5844-57.
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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