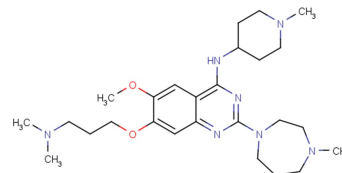


UNC0224

Chemical Properties

CAS No.:	1197196-48-7
Formula:	C ₂₆ H ₄₃ N ₇ O ₂
Molecular Weight:	485.67
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	UNC0224 is inactive against SET7/9, SET8/PreSET7, PRMT3, and JMJD2E. UNC0224 is a potent and selective histone methyltransferase G9a inhibitor (K _i : 2.6 nM, an IC ₅₀ of 15 nM, and a K _d of 23 nM). UNC0224 also potently inhibits b>GLP (assay-dependent IC ₅₀ : 20-58 nM).
Targets(IC ₅₀)	G9a: 23 nM (K _d) GLP: 20-58 nM
In vitro	The K _d value of UNC0224 to the G9a protein is 23 nM in ITC experiments. In GLP ECSD and CLOT assays, the IC ₅₀ values of 50 nM and 58 nM for UNC0224, respectively. The IC ₅₀ values of 43 nM and 57 nM for UNC0224 in G9a ECSD and CLOT assays [2].

Solubility Information

Solubility	DMSO: 16.67 mg/mL (34.32 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.059 mL	10.295 mL	20.59 mL
5 mM	0.412 mL	2.059 mL	4.118 mL
10 mM	0.206 mL	1.03 mL	2.059 mL
50 mM	0.041 mL	0.206 mL	0.412 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

2. 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.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481