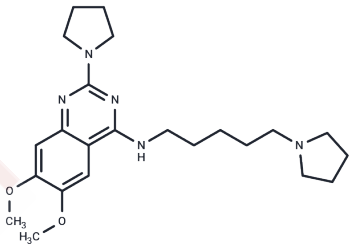
Data Sheet (Cat.No.T1841)

TargetMol

UNC0379

Chemical Properties



CAS No. : 1620401-82-2

Formula: C23H35N5O2

Molecular Weight: 413.56

Storage: Store under nitrogen
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	UNC0379 is a selective, substrate-competitive inhibitor of the lysine methyltransferase (SETD8).
Targets(IC50)	Histone Methyltransferase
In vitro	UNC0379 is competitive with the peptide substrate and noncompetitive with the cofactor SAM. [1]

Solubility Information

Solubility	DMSO: 76 mg/mL (183.77 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.84 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	2.418 mL	12.0901 mL	24.1803 mL
5 mM	0.4836 mL	2.418 mL	4.8361 mL
10 mM	0.2418 mL	1.209 mL	2.418 mL
50 mM	0.0484 mL	0.2418 mL	0.4836 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

Ma A, et al. J Med Chem. 2014, 57(15), 6822-6833.
Chen H, Hu J, Xiong X, et al.SETD8 inhibits apoptosis and ferroptosis of Ewing's sarcoma through YBX1/RAC3 axis. Cell Death & Disease.2024, 15(7): 494.