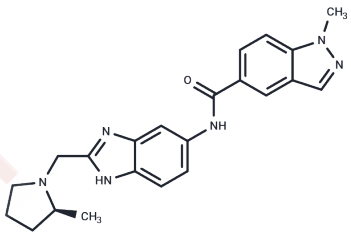
Data Sheet (Cat.No.T12886)

TargetMol

SGC-iMLLT

Chemical Properties



CAS No. : 2255338-25-9

Formula: C22H24N6O

Molecular Weight: 388.47

Storage: Store at low temperature
Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	SGC-iMLLT is a potent and selective MLLT1/3-histone interactions inhibitor(IC50 = 0.26 μM),and is a first-in-class chemical probe displaying cellular target engagement of MLLT1(Kd = 0.129μM) and MLLT3(Kd = 0.077μM).
Targets(IC50)	Epigenetic Reader Domain,Histone Methyltransferase
In vivo	After 60 min, SGC-iMLLT shows moderate metabolic resistance with t1/2 of 53 min and 48?% remaining, and the primary process for metabolism is N demethylation.

Solubility Information

Solubility	H2O: < 0.1 mg/mL (insoluble) DMSO: 83.33 mg/mL (214.51 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: 3.3 mg/mL (8.49 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	2.5742 mL	12.871 mL	25.742 mL
5 mM	0.5148 mL	2.5742 mL	5.1484 mL
10 mM	0.2574 mL	1.2871 mL	2.5742 mL
50 mM	0.0515 mL	0.2574 mL	0.5148 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

Moustakim M, et al. Discovery of an MLLT1/3 YEATS Domain Chemical Probe. Angew Chem Int Ed Engl. 2018 Dec 10;57(50):16302-16307.