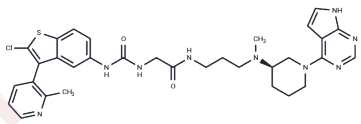
Data Sheet (Cat.No.T11081)

TargetMol

Dot1L-IN-1

Chemical Properties



CAS No. : 2088518-50-5

Formula: C32H36ClN9O2S

Molecular Weight: 646.21

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	The Ki value of DOT1L-in-1 is 2pm.It is a highly effective, selective and novel Dot1L inhibitor.
Targets(IC50)	Histone Methyltransferase
In vitro	Dot1l-in-1 significantly inhibited H3K79 dimethylation (IC50 = 3 nM) and HoxA9 promoter (IC50 = 17 nM) IN HeLa and MOLM-13 cells.Dot1l-in-1 effectively inhibited the proliferation of mL-recombinant human leukemia cell line MV4-11 carrying carcinogenic MLL-AF4 fusion (IC50 = 5 nM).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5475 mL	7.7374 mL	15.4748 mL
5 mM	0.3095 mL	1.5475 mL	3.095 mL
10 mM	0.1547 mL	0.7737 mL	1.5475 mL
50 mM	0.0309 mL	0.1547 mL	0.3095 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

Möbitz H, et al. Discovery of Potent, Selective, and Structurally Novel Dot1L Inhibitors by a Fragment Linking Approach. ACS Med Chem Lett. 2017 Feb 14;8(3):338-343.

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