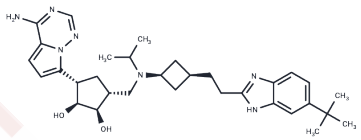
Data Sheet (Cat.No.T63955)

TargetMol

MU1656

Chemical Properties



CAS No. : 2766698-38-6

Formula: C32H45N7O2

Molecular Weight: 559.75

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	MU1656 is a potent and selective inhibitor of histone methyltransferase DOT1L (IC50 = 2 nM), a key epigenetic regulatory protein involved in the development of cancers such as hematologic malignancies, thus MU1656 was able to significantly inhibit the proliferation of cancer cells and induce apoptosis.
Targets(IC50)	Histone Methyltransferase
In vitro	MU1656 is a carbocyclic C-nucleoside analog of the natural nucleoside derivative EPZ004777. It is more stable in vivo than EPZ5676 (pinometostat) itself and has significantly lower toxicity. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7865 mL	8.9326 mL	17.8651 mL
5 mM	0.3573 mL	1.7865 mL	3.573 mL
10 mM	0.1787 mL	0.8933 mL	1.7865 mL
50 mM	0.0357 mL	0.1787 mL	0.3573 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

Khirsariya P, et, al. Synthesis and Profiling of Highly Selective Inhibitors of Methyltransferase DOT1L Based on Carbocyclic C-Nucleosides. J Med Chem. 2022 Apr 14;65(7):5701-5723.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481