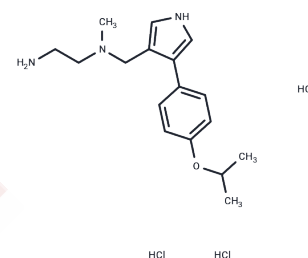


MS023 trihydrochloride

Chemical Properties

CAS No. :	2108631-19-0
Formula:	C17H28Cl3N3O
Molecular Weight:	396.78
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	MS023 trihydrochloride (MS023 3HCl) is a selective and potent human type I protein arginine methyltransferase (PRMT) inhibitor with potential anticancer activity against PRMT1, PRMT3, PRMT4, PRMT6, and PRMT8 for cancer research.
Targets(IC50)	Histone Methyltransferase
In vitro	MS023 trihydrochloride (1-1000 nM; 48 hours) inhibits the activity of PRMT1 methyltransferase in MCF7 cells[2]. MS023 trihydrochloride (1-1000 nM; 20 hours) inhibits the activity of PRMT6 methyltransferase in HEK293 cells[2].'
In vivo	Combination administration of MS023 trihydrochloride (160 mg/kg, ip) and PKC412 (100 mg/kg, ig) disrupts the propagation of MLL-r Acute Lymphoblastic Leukemia (ALL) by inhibiting the maintenance of functional MLL-r ALL initiating cells[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5203 mL	12.6014 mL	25.2029 mL
5 mM	0.5041 mL	2.5203 mL	5.0406 mL
10 mM	0.252 mL	1.2601 mL	2.5203 mL
50 mM	0.0504 mL	0.252 mL	0.5041 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

Yinghui Zhu, et al. Targeting PRMT1-mediated FLT3 methylation disrupts maintenance of MLL-rearranged acute lymphoblastic leukemia. *Blood*. 2019 Oct 10;134(15):1257-1268.

Eram MS, et al. A Potent, Selective, and Cell-Active Inhibitor of Human Type I Protein Arginine Methyltransferases. *ACS Chem Biol*. 2016 Mar 18;11(3):772-81.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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