

MS023 (hydrochloride) (1831110-54-3 free base)

Chemical Properties

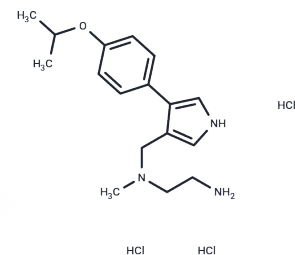
CAS No. :

Formula: C₁₇H₂₅N₃O·3HCl

Molecular Weight: 396.8

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 is a type I PRMT inhibitor (IC ₅₀ : 20, 119, 83, 8, and 8 nM for PRMT1, 3, 4, 6, and 8, respectively).
Targets(IC ₅₀)	Others
In vitro	MS023 was identified to have high potency for type I PRMTs including PRMT1, -3, -4, -6, and -8 but was inactive against type II and type III PRMTs, protein lysine methyltransferases as well as DNA methyltransferases. The crystal structure of PRMT6 with MS023 indicated that MS023 bound to the substrate-binding site. Moreover, MS023 could potentially decrease the cellular levels of histone arginine asymmetric dimethylation. In cells, MS023 also could reduce the levels of arginine asymmetric dimethylation and increase levels of arginine monomethylation and symmetric dimethylation. Therefore, MS023 is a useful chemical tool for testing the role of type I PRMTs in health and disease [1].

Solubility Information

Solubility	Ethanol: ≤30 mg/mL, Sonication is recommended. DMSO: 30 mg/mL (75.6 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5202 mL	12.6008 mL	25.2016 mL
5 mM	0.504 mL	2.5202 mL	5.0403 mL
10 mM	0.252 mL	1.2601 mL	2.5202 mL
50 mM	0.0504 mL	0.252 mL	0.504 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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