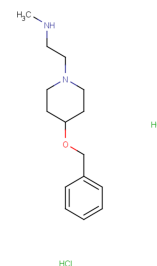


## MS049 dihydrochloride

## Chemical Properties

CAS No. :	2095432-59-8
Formula:	C <sub>15</sub> H <sub>26</sub> Cl <sub>2</sub> N <sub>2</sub> O
Molecular Weight:	321.29
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	MS049 dihydrochloride is a selective and cell-active dual inhibitor of PRMT4 and PRMT6 (IC <sub>50</sub> =34/43 nM), capable of reducing Med12me2a and H3R2me2a levels in HEK293 cells.
Targets(IC <sub>50</sub> )	Histone Methyltransferase
In vitro	MS049 dihydrochloride (0.1-10 μM; 20 h) concentration-dependently reduced H3R2me2a labeling in HEK293 cells [1]. MS049 dihydrochloride (0.1-100 μM; 72 h) concentration-dependently inhibited endogenous PRMT4 methyltransferase activity in HEK293 cells, resulting in reduced levels of asymmetric arginine dimethylation of Med12 [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1125 mL	15.5623 mL	31.1245 mL
5 mM	0.6225 mL	3.1125 mL	6.2249 mL
10 mM	0.3112 mL	1.5562 mL	3.1125 mL
50 mM	0.0622 mL	0.3112 mL	0.6225 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

Shen Y, et al. Discovery of a Potent, Selective, and Cell-Active Dual Inhibitor of Protein Arginine Methyltransferase 4 and Protein Arginine Methyltransferase 6. J Med Chem. 2016;59(19):9124-9139.

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