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MS023

产品编号: D50970

CAS: 1831110-54-3

分子式: C17H25N3O

纯度: ≥98%

InChi: InChI=1S/C17H25N3O/c1-13(2)21-16-6-4-14(5-7-16)17-11-19-10-15(17)12-20(3)9-8-18/h4-7,1

0-11,13,19H,8-9,12,18H2,1-3H3

InChi Key: FMTVWAGUJRUAKE-UHFFFAOYSA-N

Smiles: CC(C)OC1C=CC(=CC=1)C1=CNC=C1CN(C)CCN

外观: 固体粉末

作用通路: Histone Methyltransferase

溶解性: DMSO up to 100 mM; EtOH up to 100 mM

保存条件: Store in dry, dark place for one year.

产品介绍: MS023 is a potent, selective and cell permeable type I PRMT inhibitor (catalyzes mono- and

asymmetric dimethylation of arginine residues) with IC50 of 30 nM, 119 nM, 83 nM, 4 nM and

5 nM for PRMT1, PRMT3, PRMT4, PRMT6 and PRMT8, respectively. It is completely inactive

against type II and type III PRMTs, protein lysine methyltransferases and DNA

methyltransferases. A crystal structure of PRMT6 in complex with MS023 revealed that

 ${\tt MS023\ binds\ the\ substrate\ binding\ site.\ MS023\ potently\ reduces\ cellular\ levels\ of\ H4R3me2a}$

in MCF7 and HEK293 cells by inhibiting PRMT1/6 methyltransferase activity with IC50 of 9 nM and 56 nM, respectively. It potently decreased cellular levels of histone arginine asymmetric

dimethylation. It also reduced global levels of arginine asymmetric dimethylation and

concurrently increased levels of arginine monomethylation and symmetric dimethylation in

cells.