

Product Data Sheet

Product Name: MS049
Cat. No.: GC36656

Chemical Properties

Cas. No. 1502816-23-0

SMILES CNCCN1CCC(OCC2=CC=CC=C2)CC1

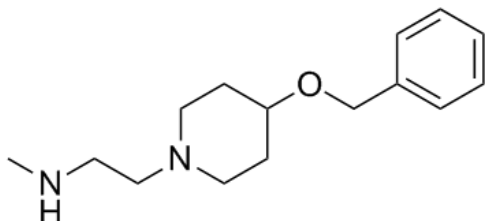
Formula $C_{15}H_{24}N_2O$ M.Wt 248.36

Solubility DMSO: ≥ 31 mg/mL (124.82 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

MS 049 is a potent, selective, and cell-active dual inhibitor of PRMT4 and PRMT6 with IC₅₀ of 34 nM and 43 nM respectively. target: PRMT4, PRMT6; IC₅₀: 34 nM (PRMT4), 43 nM (PRMT6); In vitro: MS 049 reduces the H3R2me2a mark in HEK293 cells in a concentration dependent manner. MS 049 treatment (72 h exposure) inhibits endogenous PRMT4 methyltransferase activity in a concentration dependent manner resulting in reduced levels of cellular asymmetric arginine dimethylation of Med12 (Med12-Rme2a, IC₅₀ = 1.4 ± 0.1 μM (n = 3)) in HEK293 cells.

Caution: Product has not been fully validated for medical applications. For research use only.

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[1]. 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 Sep 15.

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