

Product Data Sheet

Product Name: MS023 dihydrochloride

Cat. No.: GC36655

Chemical Properties

Cas. No. 1992047-64-9

SMILES CC(OC1=CC=C(C=C1)C2=CNC=C2CN(C)CCN)C.Cl.Cl

Formula $C_{17}H_{27}Cl_2N_3O$ M.Wt 360.32

Solubility DMSO: ≥ 150 mg/mL (416.30 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.

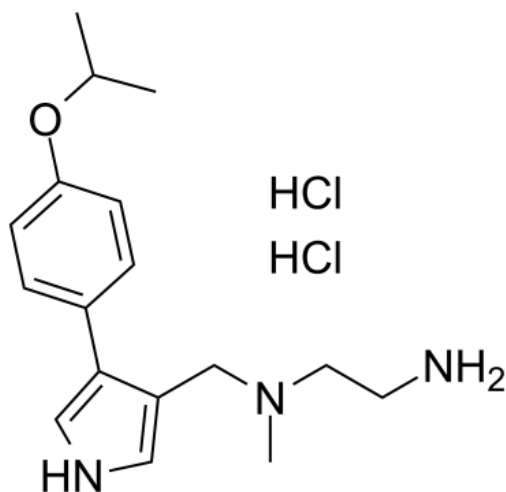
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

MS023 dihydrochloride is a potent, selective, and cell-active inhibitor of human type I protein arginine methyltransferases (PRMTs) inhibitor, with IC₅₀s of 30, 119, 83, 4 and 5 nM for PRMT1, PRMT3, PRMT4, PRMT6, and PRMT8, respectively[1]. IC₅₀: 30 nM (PRMT1), 119 nM (PRMT3), 83 nM (PRMT4), 4 nM (PRMT6), 5 nM (PRMT8)[1]

MS023 (1-1000 nM; 48 hours) inhibits PRMT1 methyltransferase activity in MCF7 cells[1]. MS023(1-1000 nM; 20 hours) inhibits PRMT6 methyltransferase activity in HEK293 cells[1]. Western Blot Analysis[1] Cell Line: MCF7 and HEK293 cells

[1]. 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.

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