
Product Data Sheet

Product Name: MCH-1 antagonist 1

Cat. No.: GC31422

Chemical Properties

Cas. No. 1039825-68-7

SMILES O=C1C=C(OCC2=CC=CC=C2)C=CN1C3=CC4=C(N(CCN5CCCC5)N=C4)C=C3

Formula $C_{25}H_{26}N_4O_2$ M.Wt 414.5

Solubility Soluble in DMSO 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

MCH-1 antagonist 1 is a potent melanin concentrating hormone (MCH-1) antagonist with a K_i of 2.6 nM. MCH-1 antagonist 1 also inhibits CYP3A4 with an IC_{50} of 10 μ M.

MCH-1 antagonist 1 (Compound 1) also inhibits cytochrome P450 3A4 (CYP3A4) with an IC_{50} of 10 μ M[1].

MCH-1 antagonist 1 is administered to male C57BL/6J DIO mice to assess their pharmacokinetic profile. Effect of MCH-1 antagonist 1 (dosed at 30 mg/kg, po) is measured on the body weight of DIO mice with the $AUC_{0-6 h}$ of 14760 h*ng/mL[1].

[1]. Henderson AJ, et al. Tetrahydrocarboline analogs as MCH-1 antagonists. Bioorg Med Chem Lett. 2010 Dec 1;20(23):7024-8.

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

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