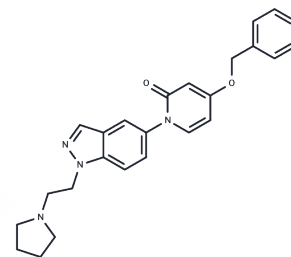


MCH-1 antagonist 1

Chemical Properties

CAS No. :	1039825-68-7
Formula:	C ₂₅ H ₂₆ N ₄ O ₂
Molecular Weight:	414.5
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	MCH-1 antagonist 1 also inhibits CYP3A4 (IC ₅₀ : 10 μM). MCH-1 antagonist 1 is a potent melanin concentrating hormone (MCH-1) antagonist (K _i : 2.6 nM).
Targets(IC ₅₀)	Melanin-concentrating Hormone Receptor (MCHR), Cytochromes P450, GPCR
In vitro	MCH-1 antagonist 1 also inhibits cytochrome P450 3A4 (CYP3A4) (IC ₅₀ : 10 μM).
In vivo	The pharmacokinetic profile of MCH-1 antagonist 1 was assessed through its administration to male C57BL/6J DIO mice at a dosage of 30 mg/kg (po). This assessment focused on its impact on body weight, evidenced by an AUC _{0-6h} of 14760 h*ng/mL.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4125 mL	12.0627 mL	24.1255 mL
5 mM	0.4825 mL	2.4125 mL	4.8251 mL
10 mM	0.2413 mL	1.2063 mL	2.4125 mL
50 mM	0.0483 mL	0.2413 mL	0.4825 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

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481