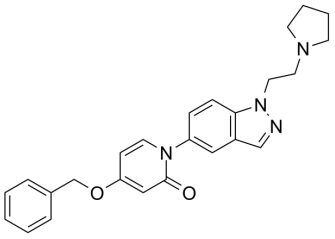
MCH-1 antagonist 1

Cat. No.:	HY-100331
CAS No.:	1039825-68-7
Molecular Formula:	$C_{25}H_{26}N_4O_2$
Molecular Weight:	414.5
Target:	MCHR1 (GPR24); Cytochrome P450
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	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 μM.	
IC_{50} & Target	MCH-1 2.6 nM (Ki)	CYP3A4 10 μM (IC_{50})
In Vitro	MCH-1 antagonist 1 (Compound 1) also inhibits cytochrome P450 3A4 (CYP3A4) with an IC_{50} of 10 μM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	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 $AUC_{0\text{-}6\ h}$ of 14760 h*ng/mL[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

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

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