MCH-1 antagonist 1

Cat. No.: HY-100331
CAS No.: 1039825-68-7
Molecular Formula: C₂₅H₂₆N₄O₂
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 COA.

BIOLOGICAL ACTIVITY

Description
MCH-1 antagonist 1 is a potent melanin concentrating hormone (MCH-1) antagonist with a Kᵢ of 2.6 nM. MCH-1 antagonist 1 also inhibits CYP3A4 with an IC₅₀ of 10 μM.

IC₅₀ & Target

<table>
<thead>
<tr>
<th></th>
<th>MCH-1</th>
<th>CYP3A4</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC₅₀ (μM)</td>
<td>2.6</td>
<td>10</td>
</tr>
</tbody>
</table>

In Vitro
MCH-1 antagonist 1 (Compound 1) also inhibits cytochrome P450 3A4 (CYP3A4) with an IC₅₀ of 10 μM[1].

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 AUC₀₋₆ₕ of 14760 h*ng/mL[1].

REFERENCES