Orforglipron

Cat. No.: HY-112185
CAS No.: 2212020-52-3
Molecular Formula: C₄₈H₄₈F₂N₁₀O₅
Molecular Weight: 882.96
Target: GCGR
Pathway: GPCR/G Protein
Storage:
  - Powder: -20°C 3 years
  - 4°C: 2 years
  - In solvent: -80°C 6 months
  - -20°C: 1 month

SOLVENT & SOLUBILITY

In Vitro
DMSO: 100 mg/mL (113.26 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mg</td>
<td>5 mg</td>
</tr>
<tr>
<td>1 mM</td>
<td>1.1326 mL</td>
<td>5.6628 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.2265 mL</td>
<td>1.1326 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1133 mL</td>
<td>0.5663 mL</td>
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</tbody>
</table>

In Vivo
1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2 mg/mL (2.27 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2 mg/mL (2.27 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Orforglipron (LY3502970) (GLP-1 receptor agonist 1) is a GLP-1 receptor agonist extracted from patent WO2018056453A1, Compound 67[1].

IC₅₀ & Target
GLP-1 receptor[1]

In Vitro
Orforglipron is an incretin secreted from L cells of the small intestine when nutrients pass through the digestive tract, and glucose is transmitted via the GLP-1 receptor. Orforglipron exhibits various actions such as dependent gastric emptying delay, and feeding suppression[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.
REFERENCES
