GLP-1 receptor agonist 1

Cat. No.: HY-112185
CAS No.: 2212020-52-3
Molecular Formula: C₄₈H₄₈F₂N₁₀O₅
Molecular Weight: 882.96
Target: Glucagon Receptor
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 : 125 mg/mL (141.57 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>1.1326 mL</td>
<td>5.6628 mL</td>
<td>11.3255 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.2265 mL</td>
<td>1.1326 mL</td>
<td>2.2651 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1133 mL</td>
<td>0.5663 mL</td>
<td>1.1326 mL</td>
<td></td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

In Vivo
1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (2.36 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (2.36 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (2.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
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
GLP-1 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. GLP-1 exhibits various actions such as dependent gastric emptying...
delay, and feeding suppression\[1\].

**REFERENCES**