Glucagon receptor antagonists-3

Cat. No.: HY-50159
CAS No.: 202917-17-7
Molecular Formula: C_{22}H_{30}FNO_{2}
Molecular Weight: 359.48
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 : ≥ 100 mg/mL (278.18 mM)
H_2O : < 0.1 mg/mL (insoluble)
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solvent</td>
<td>Concentration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td></td>
<td>2.7818 mL</td>
<td>13.9090 mL</td>
<td>27.8180 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.5564 mL</td>
<td>2.7818 mL</td>
<td>5.5636 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.2782 mL</td>
<td>1.3909 mL</td>
<td>2.7818 mL</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: ≥ 3 mg/mL (8.35 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 3 mg/mL (8.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Glucagon receptor antagonists-3 is a highly potent glucagon receptor antagonist.

REFERENCES
[1]. Ladouceur, Gaetan H. et al. Integration of optimized substituent patterns to produce highly potent 4-aryl-pyridine glucagon receptor antagonists.