DGAT-1 inhibitor 2

Cat. No.: HY-50670
CAS No.: 942999-61-3
Molecular Formula: C₂₄H₂₈N₄O₃
Molecular Weight: 420.5
Target: Acyltransferase
Pathway: Metabolic Enzyme/Protease
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: 25 mg/mL (59.45 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></td>
<td>1 mM</td>
<td>2.3781 mL</td>
<td>11.8906 mL</td>
<td>23.7812 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.4756 mL</td>
<td>2.3781 mL</td>
<td>4.7562 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2378 mL</td>
<td>1.1891 mL</td>
<td>2.3781 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: 2.5 mg/mL (5.95 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.95 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.95 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
DGAT-1 inhibitor 2 is an effective inhibitor of DGAT-1; antiobesity agents. IC50 value: Target: DGAT-1 Acyl-CoA:diacylglycerol acyltransferase 1 (DGAT1) is one of two known DGAT enzymes that catalyze the final step in triglyceride synthesis. Findings from genetically modified mice as well as pharmacological studies suggest that inhibition of DGAT1 is a promising strategy for the treatment of obesity and type 2 diabetes.
REFERENCES


