SOLVENT & SOLUBILITY

In Vitro

DMSO: 125 mg/mL (119.36 mM; Need ultrasonic)

Preparing Stock Solutions

<table>
<thead>
<tr>
<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>0.9549 mL</td>
<td>4.7745 mL</td>
<td>9.5490 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.1910 mL</td>
<td>0.9549 mL</td>
<td>1.9098 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.0955 mL</td>
<td>0.4775 mL</td>
<td>0.9549 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: ≥ 6.25 mg/mL (5.97 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 6.25 mg/mL (5.97 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 6.25 mg/mL (5.97 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Gypenoside XLIX, a dammarane-type glycoside, is a prominent component of G. pentaphyllum. Gypenoside XLIX is a selective peroxisome proliferator-activated receptor (PPAR)-alpha activator and inhibits cytokine-induced vascular cell adhesion molecule-1 (VCAM-1) overexpression and hyperactivity in human endothelial cells[1].

IC₅₀ & Target

PPAR-α

REFERENCES