Oleanonic acid

Cat. No.: HY-N1487
CAS No.: 17990-42-0
Molecular Formula: C₃₀H₄₆O₃
Molecular Weight: 454.68
Target: HIV
Pathway: Anti-infection
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 (219.93 mM; Need ultrasonic)
- H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.1993 mL</td>
<td>10.9967 mL</td>
<td>21.9935 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4399 mL</td>
<td>2.1993 mL</td>
<td>4.3987 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2199 mL</td>
<td>1.0997 mL</td>
<td>2.1993 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 (5.50 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (5.50 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.50 mM); Clear solution

BIological ACTIVITY

Description
Oleanonic acid (3-Oxooleanolic acid) is a triterpenoid, inhibits infection by HIV-1 in in vitro infected PBMC, naturally infected PBMC and monocyte/macrophages with EC₅₀ of 22.7 mM, 24.6 mM and 57.4 mM, respectively.

REFERENCES