Alpinetin

Cat. No.: HY-N0625A
CAS No.: 36052-37-6
Molecular Formula: C₁₆H₁₄O₄
Molecular Weight: 270.28
Target: PPAR
Pathway: Cell Cycle/DNA Damage
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: 50 mg/mL (184.99 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mg</td>
<td>5 mg</td>
</tr>
<tr>
<td>1 mM</td>
<td>3.6999 mL</td>
<td>18.4993 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.7400 mL</td>
<td>3.6999 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.3700 mL</td>
<td>1.8499 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: ≥ 2.08 mg/mL (7.70 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (7.70 mM); Clear solution

3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (7.70 mM); Clear solution

BIOLOGICAL ACTIVITY

**Description**

Alpinetin is a flavonoid isolated from Alpinia katsumadai Hayata, activates PPAR-γ, with potent anti-inflammatory activity[1].

**IC₅₀ & Target**

PPAR-γ