Hypaconitine

Cat. No.: HY-N0267
CAS No.: 6900-87-4
Molecular Formula: C₃₃H₄₅NO₁₀
Molecular Weight: 615.71
Target: TNF Receptor
Pathway: Apoptosis
Storage: Powder
-20°C 3 years
4°C 2 years
In solvent
-80°C 6 months
-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>1.6241 mL</td>
<td>8.1207 mL</td>
<td>16.2414 mL</td>
</tr>
<tr>
<td>H₂O</td>
<td>&lt; 0.1 mg/mL (insoluble)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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>1.6241 mL</td>
<td>8.1207 mL</td>
<td>16.2414 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.3248 mL</td>
<td>1.6241 mL</td>
<td>3.2483 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1624 mL</td>
<td>0.8121 mL</td>
<td>1.6241 mL</td>
</tr>
</tbody>
</table>

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (4.06 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.06 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Hypaconitine, an active and highly toxic constituent derived from Aconitum species, is widely used to treat rheumatism. IC50 value: Target: In vitro: The present study investigated the metabolism of hypaconitine in vitro using male human liver microsomes. The primary contributors toward HA metabolism were CYP3A4 and 3A5, with secondary contributions by CYP2C19, 2D6 and CYP2E1 [1]. In vivo:

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REFERENCES

