Wilforine

Cat. No.: HY-N0899
CAS No.: 11088-09-8
Molecular Formula: C₄₃H₄₉NO₁₈
Molecular Weight: 867.85
Target: Others
Pathway: Others
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 (57.61 mM; Need ultrasonic)

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass (L)</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>1.1523 mL</td>
<td></td>
<td>5.7614 mL</td>
<td>11.5227 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.2305 mL</td>
<td></td>
<td>1.1523 mL</td>
<td>2.3045 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1152 mL</td>
<td></td>
<td>0.5761 mL</td>
<td>1.1523 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 (2.88 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (2.88 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Wilforine is a sesquiterpene pyridine alkaloid; important bioactive compound in T. wilfordii plants, and is effective in treating idiopathic pulmonary fibrosis.

REFERENCES