**Loganin**

**Cat. No.:** HY-N0512  
**CAS No.:** 18524-94-2  
**Molecular Formula:** C₁₇H₂₆O₁₀  
**Molecular Weight:** 390.38  
**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:** ≥ 100 mg/mL (256.16 mM)  
* "≥" means soluble, but saturation unknown.  

<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>2.5616 mL</td>
<td>12.8080 mL</td>
<td>25.6161 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5123 mL</td>
<td>2.5616 mL</td>
<td>5.1232 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2562 mL</td>
<td>1.2808 mL</td>
<td>2.5616 mL</td>
</tr>
</tbody>
</table>

Preparing Stock Solutions  
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 (6.40 mM); Clear solution  
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.5 mg/mL (6.40 mM); Clear solution  
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.5 mg/mL (6.40 mM); Clear solution

**BIOLOGICAL ACTIVITY**

**Description**  
Loganin, a major iridoid glycoside obtained from Corni fructus, has been shown to have anti-inflammatory and anti-shock effects. Loganin exhibits an anti-inflammatory effect in cases of AP and its pulmonary complications through inhibition of NF-κB activation.
REFERENCES
