Cynaroside

Cat. No.: HY-N0540
CAS No.: 5373-11-5
Molecular Formula: C₂₁H₂₀O₁₁
Molecular Weight: 448.38

Target: Influenza Virus; DNA/RNA Synthesis
Pathway: Anti-infection; 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 : 83.33 mg/mL (185.85 mM; Need ultrasonic)

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.2303 mL</td>
<td>11.1513 mL</td>
<td>22.3025 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4461 mL</td>
<td>2.2303 mL</td>
<td>4.4605 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2230 mL</td>
<td>1.1151 mL</td>
<td>2.2303 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 (4.64 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.64 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Cynaroside (Luteolin 7-glucoside) is a flavone, a flavonoid-like chemical compound. Cynaroside is also a potent influenza RNA-dependent RNA polymerase inhibitor with an IC₅₀ of 32 nM[1].

CUSTOMER VALIDATION

REFERENCES


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