3,4-Dicaffeoylquinic acid

Cat. No.: HY-N0057
CAS No.: 14534-61-3
Molecular Formula: C₂₅H₂₄O₁₂
Molecular Weight: 516.45
Target: Others
Pathway: Others
Storage:
- Powder -20°C 3 years
- Powder 4°C 2 years
- In solvent -80°C 6 months
- In solvent -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro
DMSO: 50 mg/mL (96.81 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>1.9363 mL</td>
<td>9.6815 mL</td>
<td>19.3630 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.3873 mL</td>
<td>1.9363 mL</td>
<td>3.8726 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.1936 mL</td>
<td>0.9681 mL</td>
<td>1.9363 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 (4.84 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.84 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.84 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
3,4-Dicaffeoylquinic acid is a reference substance of a common phytochemical found in Echinacea (Echinacea sp.); dietary supplement, herb, or plant testing applications with this reference material include material characterization, adulterant identification, or method validation.

REFERENCES
[1]. Takemura T, et al. 3,4-Dicaffeoylquinic Acid, a Major Constituent of Brazilian Propolis, Increases TRAIL Expression and Extends the Lifetimes of Mice Infected with the Influenza A Virus. Evid Based Complement Alternat Med. 2012;2012:946867.