3,5-Dicaffeoylquinic acid

**Cat. No.:** HY-N0056  
**CAS No.:** 2450-53-5  
**Molecular Formula:** C_{25}H_{24}O_{12}  
**Molecular Weight:** 516.45  
**Target:** Reactive Oxygen Species  
**Pathway:** Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB  
**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 (96.81 mM)  
*“≥” means soluble, but saturation unknown.*

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 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**  
3,5-Dicaffeoylquinic acid is a natural phenolic acid with antioxidant and anti-inflammatory activities.

### CUSTOMER VALIDATION

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REFERENCES


Caution: Product has not been fully validated for medical applications. For research use only.

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