Procyanidin C1

**Cat. No.:** HY-N2342  
**CAS No.:** 37064-30-5  
**Molecular Formula:** C_{45}H_{38}O_{18}  
**Molecular Weight:** 866.77  
**Target:** Apoptosis  
**Pathway:** Apoptosis  
**Storage:** 4°C, protect from light  
* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

**SOLVENT & SOLUBILITY**

**In Vitro**  
DMSO: 100 mg/mL (115.37 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td></td>
<td></td>
<td>1.1537 mL</td>
<td>5.7685 mL</td>
<td>11.5371 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td></td>
<td>0.2307 mL</td>
<td>1.1537 mL</td>
<td>2.3074 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td></td>
<td>0.1154 mL</td>
<td>0.5769 mL</td>
<td>1.1537 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% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.5 mg/mL (2.88 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.5 mg/mL (2.88 mM); Clear solution

**BIOLOGICAL ACTIVITY**

**Description**  
Procyanidin C1 (PCC1), a natural polyphenol, causes DNA damage, cell cycle arrest and induces apoptosis. Procyanidin C1 decreases the level of Bcl-2, but enhances BAX, caspase 3 and 9 expression in cancer cells[^1].

**IC_{50} & Target**  
Apoptosis[^1]

**REFERENCES**

[^1]: Source reference for biological activity.

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

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