Pentagalloylglucose

Cat. No.: HY-N0527  
CAS No.: 14937-32-7  
Molecular Formula: C₄₁H₃₂O₂₆  
Molecular Weight: 940.68  
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: 50 mg/mL (53.15 mM; Need ultrasonic)
H₂O: 6 mg/mL (6.38 mM; Need ultrasonic and warming)

**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>1.0631 mL</td>
<td>5.3153 mL</td>
<td>10.6306 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.2126 mL</td>
<td>1.0631 mL</td>
<td>2.1261 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1063 mL</td>
<td>0.5315 mL</td>
<td>1.0631 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 (2.66 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (2.66 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (2.66 mM); Clear solution

BIOLOGICAL ACTIVITY

**Description**

Pentagalloylglucose (Penta-O-galloyl-β-D-glucose) is a gallotannin isolated from various plants. It suppressed interleukin (IL)-4 induced signal pathway in B cell, and inhibited IgE production partially caused by increasing a population of Treg cells in conjunction with Treg-inducing factors.
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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