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)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>1.0631 mL</td>
<td>5.3153 mL</td>
<td>10.6306 mL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.2126 mL</td>
<td>1.0631 mL</td>
<td>2.1261 mL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.1063 mL</td>
<td>0.5315 mL</td>
<td>1.0631 mL</td>
<td></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% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.5 mg/mL (2.66 mM); Clear solution

3. Add each solvent one by one: 10% DMSO > 90% corn oil  
   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.
See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

**REFERENCES**


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

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