Pentagalloylglucose

Cat. No.: HY-N0527
CAS No.: 14937-32-7
Molecular Formula: \( \text{C}_{41}\text{H}_{32}\text{O}_{26} \)
Molecular Weight: 940.68
Target: Influenza Virus
Pathway: Anti-infection
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)

H\(_2\)O : 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% (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. Pentagalloylglucose possesses significant anti-rabies virus (RABV) activity.
REFERENCES


Caution: Product has not been fully validated for medical applications. For research use only.
Tel: 609-228-6898        Fax: 609-228-5909        E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA