Complanatuside

Cat. No.: HY-N1444
CAS No.: 116183-66-5
Molecular Formula: C₂₈H₃₂O₁₆
Molecular Weight: 624.54
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: ≥ 100 mg/mL (160.12 mM)
* “≥” means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass (mg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>1.6012 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>8.0059 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>16.0118 mL</td>
</tr>
</tbody>
</table>

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (3.33 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (3.33 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Complanatuside is a flavonoid found in the traditional Chinese medicine Semen Astragali Complanati.

In Vitro

Semen Astragali Complanati (SAC), the dried ripe seed of Flatstem Milkvetch (Astragalus complanatus Bunge), is commonly used in traditional Chinese medicine for treating muscle, liver, kidney, blood, skin and reproductive system diseases. The major contents of SAC include fatty acids, amino acids, polysaccharides, flavonoids, triterpene glycosides and trace elements. SAC exhibits a number of therapeutic effects on chronic diseases such as cardiovascular diseases, diabetes mellitus and cancers. It has been found that flavonoids are the main bioactive component in SAC.[1][2].
REFERENCES
