Apigenin 7-glucoside

Cat. No.: HY-N0578
CAS No.: 578-74-5
Molecular Formula: C₂₁H₂₀O₁₀
Molecular Weight: 432.38
Target: Reactive Oxygen Species
Pathway: Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLIBILITY

In Vitro

DMSO : ≥ 30 mg/mL (69.38 mM)
* “≥” means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Preparing Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.3128 mL</td>
<td>11.5639 mL</td>
<td>23.1278 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4626 mL</td>
<td>2.3128 mL</td>
<td>4.6256 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2313 mL</td>
<td>1.1564 mL</td>
<td>2.3128 mL</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Apigenin-7-glucoside exhibits significant anti-proliferative and antioxidant activity, scavengers of ROS. In vitro: exhibits significant anti-proliferative activity against B16F10 melanoma cells after 24 and 48 h of incubation. Apigenin-7-glucoside provoks an increase of subG0/G1, S and G2/M phase cell proportion with a significant decrease of cell proportion in G0/G1 phases. Apigenin-7-glucoside enhances melanogenesis synthesis and tyrosinase activity of B16F10 melanoma cells. [1] Api7G specifically induced the differentiation of CD34+ cells towards the erythroid lineage and inhibited the myeloid differentiation. [2] APIG had strong antioxidant activity against reactive oxygen species (ROS) in vitro in a concentration-dependent manner.

CUSTOMER VALIDATION

- Faculty of Biology. University of Belgrade. 2019 Jul.

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REFERENCES
