Aucubin

Cat. No.: HY-N0664
CAS No.: 479-98-1
Molecular Formula: C₁₅H₂₂O₉
Molecular Weight: 346.33
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: ≥ 31 mg/mL (89.51 mM)
* “≥” means soluble, but saturation unknown.

Preparation of Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass (1 mg)</th>
<th>Mass (5 mg)</th>
<th>Mass (10 mg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.8874 mL</td>
<td>14.4371 mL</td>
<td>28.8742 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5775 mL</td>
<td>2.8874 mL</td>
<td>5.7748 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2887 mL</td>
<td>1.4437 mL</td>
<td>2.8874 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
Aucubin is an iridoid glycoside with a wide range of biological activities, including anti-inflammatory, anti-microbial, anti-algesic as well as anti-tumor activities. IC50 value: Target: In vitro: Aucubin promotes neuronal differentiation and neurite outgrowth in neural stem cells cultured primarily from the rat embryonic hippocampus [1]. Aucubin significantly reversed the elevated gene and protein expression of MMP-3, MMP-9, MMP-13, iNOS, COX-2 and the production of NO induced by IL-1β challenge in rat chondrocytes [2]. In vivo:

REFERENCES

