Tangeretin

Cat. No.: HY-N0133
CAS No.: 481-53-8
Molecular Formula: C₂₀H₂₀O₇
Molecular Weight: 372.37
Target: Notch
Pathway: Stem Cell/Wnt
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: 33.33 mg/mL (89.51 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<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>2.6855 mL</td>
<td>13.4275 mL</td>
<td>26.8550 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5371 mL</td>
<td>2.6855 mL</td>
<td>5.3710 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2686 mL</td>
<td>1.3428 mL</td>
<td>2.6855 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 >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.71 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Tangeretin, a flavonoid from citrus fruit peels, has been proven to play an important role in anti-inflammatory responses and neuroprotective effects in several disease models, and was also selected as a Notch-1 inhibitor. IC50 value:Target: Notch-1n vitro: Tangeretin enhanced the radiosensitivity of GC cells as demonstrated by MTT and colony formation assays. Tangeretin also attenuated radiation-induced EMT, invasion and migration in GC cells, accompanied by a decrease in Notch-1, Jagged1/2, Hey-1 and Hes-1 expressions. Tangeretin triggered the upregulation of miR-410, a tumor-suppressive microRNA. Furthermore, re-expression of miR-410 prevented radiation-induced EMT and cell invasion [1]. In vivo: In this study, we investigated the in vivo anti-RSV activity of tangeretin in 3-week-old male BALB/c mice. A plaque reduction assay and fluorescence quantitative polymerase chain reaction (FQ-PCR) showed that tangeretin inhibited RSV replication in the lung of mice [2].
REFERENCES

