**Acacetin**

Cat. No.: HY-N0451  
CAS No.: 480-44-4  
Molecular Formula: C₁₆H₁₂O₅  
Molecular Weight: 284.26  
Target: Potassium Channel  
Pathway: Membrane Transporter/Ion Channel  
Storage: Powder  
-20°C: 3 years  
4°C: 2 years  
In solvent:  
-80°C: 6 months  
-20°C: 1 month

**SOLVENT & SOLUBILITY**

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>≥ 37 mg/mL</td>
<td>3.5179 mL</td>
<td>17.5895 mL</td>
<td>35.1791 mL</td>
</tr>
</tbody>
</table>

*"≥" means soluble, but saturation unknown.*

Preparation of Stock Solutions:

- 1 mM: 0.3518 mL, 1.7590 mL, 3.5179 mL
- 5 mM: 0.07036 mL, 0.3518 mL, 0.7036 mL
- 10 mM: 0.3518 mL, 1.7590 mL, 3.5179 mL

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

**BIOLOGICAL ACTIVITY**

Description:

1) Natural acacetin was a 4.0-fold and 5.5-fold more potent inhibitor of BACE-1 than oleanolic acid and maslinic acid, respectively.  
2) Acacetin significantly suppressed the photoreceptor collapse.  
3) Acacetin significantly reduces the Aβ levels by interfering with human APP proteolytic processing and BACE-1 expression.  
4) Acacetin inhibited the generation of the APP-CTF by affecting APP cleavage.  
5) Acacetin prolongs lifespan in a dose-dependent manner. Acacetin(25 uM) had the greatest effect on longevity, extending mean lifespan significantly by 27.31% at 25 uM concentration.

**REFERENCES**


Caution: Product has not been fully validated for medical applications. For research use only.
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