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

In Vitro  
DMSO: ≥ 37 mg/mL (130.16 mM)  
* “≥” means soluble, but saturation unknown.

Mass  
1 mg | 5 mg | 10 mg
---|---|---
1 mM | 3.5179 mL | 17.5895 mL | 35.1791 mL |
5 mM | 0.7036 mL | 3.5179 mL | 7.0358 mL |
10 mM | 0.3518 mL | 1.7590 mL | 3.5179 mL |

Preparation Stock Solutions

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

BIOLOGICAL ACTIVITY

Description  
Acacetin (5,7-Dihydroxy-4'-methoxyflavone) was a 4.0-fold and 5.5-fold more potent inhibitor of BACE-1 than oleanolic acid and maslinic acid, respectively. Acacetin (5,7-Dihydroxy-4'-methoxyflavone) significantly suppressed the photoreceptor collapse. Acacetin (5,7-Dihydroxy-4'-methoxyflavone) significantly reduces the Aβ levels by interfering with human APP proteolytic processing and BACE-1 expression. Acacetin (5,7-Dihydroxy-4'-methoxyflavone) inhibited the generation of the APP-CTF by affecting APP cleavage. Acacetin (5,7-Dihydroxy-4'-methoxyflavone) prolongs lifespan of significantly in the dose dependent manner[1].

REFERENCES