

Calycosin-7-O-β-D-glucoside

Catalog No: tcsc3716

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:

20633-67-4

Formula:

 $C_{22}H_{22}O_{10}$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Observed Molecular Weight:

446.4

Product Description

Calycosin-7-O-β-D-glucoside, a melanin biosynthesis inhibitor, is isolated from the methanol extract of astragalus.

IC50 value: 68 μ M in inhibition of Tyrosinase

Target:

Copyright 2021 Taiclone Biotech Corp.



In vitro: Calycosin-7-O- β -d-glucoside showed a melanin biosynthesis inhibition zone in a culture plate of Streptomyces bikiniensis. Furthermore, 75.78 μ M of calycosin-7-O- β -d-glucoside dramatically decreased 50% of the melanin content on Melan-a cells without any apparent cytotoxicity [1]. Calycosin-7-O- β -D-glucoside was revealed to scavenge NO, inhibit the activities of MMP-2 and MMP-9, and attenuate cell death in the in vitro cultured brain microvascular endothelial cells under OGD condition.

In vivo: Calycosin-7-O- β -D-glucoside treatment significantly reduced infarct volume, histological damage and blood-brain barrier permeability in the in vivo MCAO ischemia-reperfusion rat model [2]. To reveal its physiological functions under stress, seedlings with different isoflavonoid levels were established using a phenylalanine ammonia lyase (PAL) enzyme inhibitor, l- α -aminooxy- β -phenylpropionic acid (AOPP). The results showed that the significant promotion of antioxidant capacity in this species might be associated with the remarkable accumulation of Calycosin-7-O- β -D-glucoside after cold pretreatment. The results provided the first evidence that a type of isoflavonoid, Calycosin-7-O- β -D-glucoside, might play a very important role against freezing stress in vivo [3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!

Copyright 2021 Taiclone Biotech Corp.