[ Product Information ]

Name: Calycosin-7-O-beta-D-glucoside

Catalog No.: CFN99141

Cas No.: 20633-67-4

Purity: > 98%

M.F: C_{22}H_{22}O_{10}

M.W: 446.40

Physical Description: Yellow powder

Synonyms: 3-(3-Hydroxy-4-methoxyphenyl)-7-((2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)-tetrahydro-2H-pyran-2-yl)oxy)-4H-chromen-4-one.

[ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Ingredient in supplements, beverages;
7. Aromatics;
8. Others.
The herb of *Astragalus membranaceus* Bge. var. mongholicus.

**[Biological Activity or Inhibitors]**

Calycosin-7-O-β-d-glucoside (CG) treatment can significantly reduce infarct volume, histological damage and BBB permeability in the in vivo MCAO ischemia–reperfusion rat model; inhibit the expression and activities of MMPs, and secure the expression of cav-1 and tight junction proteins in the microvessels isolated from ischemic rat cortex; 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; thus CG could protect BBB integrity in experimental cerebral ischemia–reperfusion injury via regulating NO/cav-1/MMPs pathway.[1]

Calycosin-7-O-β-D-glucoside can promote oxidative stress-induced cytoskeleton reorganization through integrin-linked kinase signaling pathway in vascular endothelial cells.[2]

Calycosin-7-O-β-d-glucoside attenuates ischemia-reperfusion injury in vivovia activation of the PI3K/Akt pathway.[3]

Calycosin-7-O-β-D-glucoside has effects on cell apoptosis in cervical cancer HeLa cells and expression of Bcl-2/Bax.[4]

**[Solvent]**

Pyridine, DMSO, Ethanol, Methanol.

**[HPLC Method]**[5]

Mobile phase: Acetonitrile-H2O=30:70;
Flow rate: 1.0 ml/min;
Column temperature: 30 ℃;
The wave length of determination: 260 nm.
[Storage]

2-8℃, Protected from air and light, refrigerate or freeze.

[References]


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