Natural Products

ChemFaces

Calceolarioside A Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Calceolarioside A

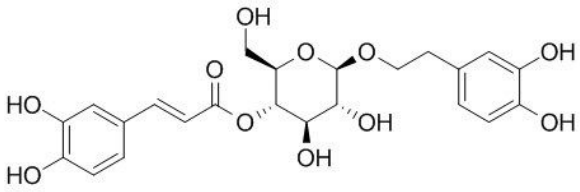
Catalog No.: CFN98522

Cas No.: 84744-28-5

Purity: >=98%

M.F: $C_{23}H_{26}O_{11}$

M.W: 478.44



Physical Description: White powder

Synonyms:[(2R,3S,4R,5R,6R)-6-[2-(3,4-dihydroxyphenyl)ethoxy]-4,5-dihydroxy-2-(hydroxymethyl)oxan-3-yl] (E)-3-(3,4-dihydroxyphenyl)prop-2-enoate.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The herbs of *Ajuga becumbens Thunb.*

[Biological Activity or Inhibitors]

Calceolarioside A shows potent activity against visceral leishmaniasis.[1]

Calceolarioside A can induce a dose-related aggregant effect on rabbit platelets, which may be partly related to a calcium-dependent mechanism.[2]

Calceolarioside A has potent antioxidative activity, it displays stronger scavenging potential with IC_{50} values of (4.15 +/- 0.07, 40.32 +/- 0.09, 2.26 +/- 0.03 microM) for OH, total ROS and scavenging of ONOO(-), respectively.[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method][4]

Mobile phase: Methanol-H2O-Phosphoric acid =35: 65: 0.05 ;

Flow rate:1.0 ml/min;

Column temperature: 35℃;

The wave length of determination:330 nm.

[Storage]

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

[References]

[1] Poddar A, Banerjee A, Ghanta S, *et al. Planta Med.,2008, 74(5):503-8.*

[2] Capasso A, Di G A, Pieretti S, *et al. Planta Med.,1993, 59(4):337-9.*

[3] Ahmad I, Ahmad N, Wang F. *J. Enzyme Inhib. Med. Chem.,2009 Aug;24(4):993-7.*

[4] Gao H M, Wang Z M, Qu L, *et al. China Journal of Chinese Materia Medica, 2007, 32 (6):476-8.*

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