Natural Products

ChemFaces

Calceolarioside B Datasheet

4th Edition (Revised in July, 2016)

Product Information

Name: Calceolarioside B
Catalog No.: CFN90647
Cas No.: 105471-98-5
Purity: > 98%
M.F: C_{23}H_{26}O_{11}
M.W: 478.45
Physical Description: Powder
Synonyms: b-D-Glucopyranoside, 2-(3,4-dihydroxyphenyl)ethyl, 6-[3-(3,4-dihydroxyphenyl)
-2-propenoate], (E)-; Desrhamnosyl Isoacteoside.

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 can inhibit adriamycin-induced apoptosis in H9c2 cardiomyocyte by inhibiting the generation of reactive oxygen species, it may be a potential candidate agent that inhibits cardiomyocyte-toxicity in adriamycin-exposed patients.[1]
Calceolarioside B shows inhibitory activity against PKCalpha with IC50 value (in microM) of 4.6.[2]
Calceolarioside B demonstrates scavenging properties toward the 1,1-diphenyl-1-picrylhydrazyl (DPPH) radical. [3]
Calceolarioside B and esculetin show moderate binding affinity on HIV gp41 with IC 50 values of 0.1 mg/ml and 0.5 mg/ml, respectively.[4]

[ Solvent ]
Pyridine, Methanol, Ethanol, etc.

[ HPLC Method ][5]
Mobile phase: Methanol- H2O- Phosphoric acid=35:65:0.05;
Flow rate: 1.0 ml/min;
Column temperature: 30 °C;
The wave length of determination: 330 nm.

[ Storage ]
2-8°C, Protected from air and light, refrigerate or freeze.

[ References ]

[ Contact ]

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