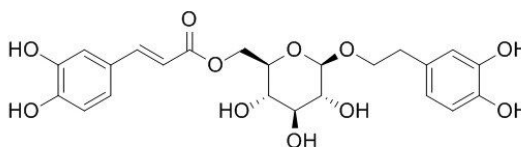


Calceolarioside B Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Calceolarioside B**Catalog No.:** CFN90647**Cas No.:** 105471-98-5**Purity:** > 98%**M.F:** C₂₃H₂₆O₁₁**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 PKC α 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 IC₅₀ 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]

[1] Kim D S, Kim H R, Woo E R, *et al. Eur. J. Pharmacol.*, 2006, 541(1-2):24-32.

[2] Zhou B N, Bahler BD, Hofmann GA, *et al. J. Nat. Prod.*, 1998, 61(11):1410-2.

[3] T. Ersöz, D. Taşdemir, I. Çalış, *et al. Turk. J.Chem.*, 2002, 26(4):465-71.

[4] Kim H J, Yu Y G, Park H, *et al. Planta Med.*, 2002, 68(11):1034-6.

[5] 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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