

(-)-Epiafzelechin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: (-)-Epiafzelechin

Catalog No.: CFN98271

Cas No.: 24808-04-6

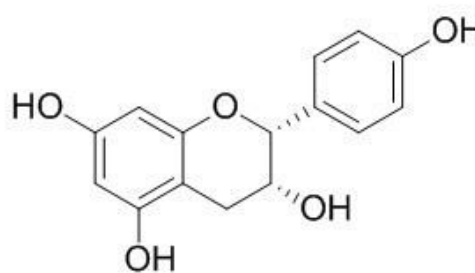
Purity: > 98%

M.F: C₁₅H₁₄O₅

M.W: 274.3

Physical Description: Powder

Synonyms: (2R,3R)-2-(4-Hydroxyphenyl)-3,5,7-chromantriol; (2R,3R)-3,4-Dihydro-2-(4-hydroxyphenyl)-2H-1-benzopyran-3,5,7-triol.



[Intended Use]

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

[Source]

The herbs of *Celastrus orbiculatus*.

[Biological Activity or Inhibitors]

(-)-Epiarzelechin exhibits a dose-dependent inhibition on the COX activity with an IC₅₀ value of 15 µM, it exhibits about 3-fold weaker inhibitory potency on the enzyme activity than indomethacin as a positive control; (-)-epiarzelechin exhibits significant anti-inflammatory activity on carrageenin-induced mouse paw edema when the compound (100 mg/kg) was orally administered at 1 h before carrageenin treatment.^[1]

(-)-Epicatechin shows zero and/or the lowest activities against pancreatic lipase (IC₅₀ > 20 µM).^[2]

Epiarzelechin has antioxidant properties.^[3]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[4]

Mobile phase: Methanol-H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 208 nm.

[Storage]

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

[References]

[1] Min K R, Hwang B Y, Lim H S, *et al. Planta Med.*, 1999, 65(5):460-2.

[2] Nakai M, Fukui Y, Asami S, *et al. J. Agr. Food Chem.*, 2005, 53(11):4593-8.

[3] Kpegba K, Agbonon A, Petrovic A G, *et al. J. Nat. Prod.*, 2011, 74(3):455-9.

[4] Wu X P. *Chinese Journal of Pharmaceutical Analysis*, 2008, 28(6):992-5.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com