

(+)-Afzelechin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: (+)-Afzelechin

Catalog No.: CFN98280

Cas No.: 2545-00-8

Purity: > 95%

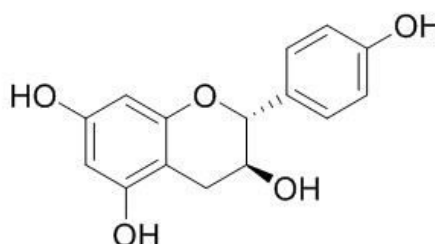
M.F: C₁₅H₁₄O₅

M.W: 274.27

Physical Description: Powder

Synonyms: (2R)-2 α -(4-Hydroxyphenyl)chroman-3 β ,5,7-triol;

[2R,3S,(+)]-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]

(+)-Afzelechin has a neuroprotective effect on the glutamate-induced neurotoxicity in HT22 cells, it has ABTS cation radical scavenging effects with IC50 values of 23.7 microM, suggests that it could be neuroprotectants owing to their free radical scavenging activities.

[1]

(+)-Afzelechin has inhibitory compound of alpha-glucosidase activity, the ID(50) (50% inhibition dose) value is 0.13 mM.[2]

(+)-Afzelechin shows moderate to strong radical scavenging properties against diphenylpicrylhydrazyl radical (DPPH) and improves the reduced glutathione levels in rat pancreatic homogenate.[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile- H2O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 200 nm.

[Storage]

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

[References]

[1] Li G, Min B S, Zheng C, *et al. Arch.Pharm. Res.*, 2005, 28(7):804-9.

[2] Saijyo J, Suzuki Y, Okuno Y, *et al. J.Oleo Sci.*, 2008, 57(8):431-5.

[3] Narváez-Mastache J M, Novillo F, Delgado G. *Phytochemistry*, 2008, 69(2):451-6.

[4] Reddy U D C, Chawla A S, Deepak M, *et al. Phytochem. Analysis*, 1999, 10(1):44-7.

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