

Pinocembrin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Pinocembrin

Catalog No.: CFN98740

Cas No.: 480-39-7

Purity: >=98%

M.F: C₁₅H₁₂O₄

M.W: 256.25

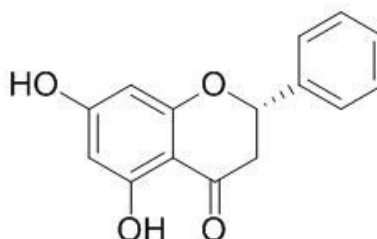
Physical Description: Powder

Synonyms: 5,7-Dihydroxyflavanone;5,7-Dihydroxy-3'4'5'-flavanone;

5,7-Dihydroxy-2-phenyl-chroman-4-one;(s)-2,3-Dihydro-5,7-dihydroxy-2-phenyl-4h-1-ben

zopyran-4-one;3-Dihydro-5,7-dihydroxy-2-phenyl-(s)-4h-1-benzopyran-4-on;

Dihydrochrysin;Galanginflavanone.



[Intended Use]

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

[Source]

The fruit of *Alpinia katusnadia* Hayata.

[Biological Activity or Inhibitors]

Pinocembrin can improve cognition, at least in part, attributable to the neurovascular unit (NVU) protection, and highlights pinocembrin as a potential therapeutic strategy for the prevention and/or treatment of Alzheimer's disease.^[1]

Pinocembrin has neuroprotective effect on ischemia/reperfusion and ischemia/reperfusion-like insults, may act by the anti-oxidative and anti-apoptotic effects.^[2]

Pinocembrin has in vitro and in vivo protection against lipopolysaccharide-induced inflammatory responses, it may represent a novel candidate for the modulation of inflammatory responses. ^[3]

Pinocembrin is an antifungal compound secreted by leaf glands of eastern cottonwood.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Methanol- H₂O(adjusted to pH 3.0 with phosphoric acid)=63:37;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 290 nm.

[Storage]

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

[References]

[1] Liu R, Li J Z, Song J K, *et al. Neurobiol. Aging*, 2014, 35(6):1275-85.

[2] Liu R, Gao M, Yang Z H, *et al. Brain Res.*, 2008, 1216(26):104-15.

[3] Soromou L W, Chu X, Jiang L, *et al. Int. Immunopharmacol.*, 2012, 14(1):66-74.

[4] Shain L, Miller J B. *Phytopathology*, 1982, 72(7):877-80.

[5] Qi Y Q, Wu S. *Chinese Journal of Pharmaceutical Analysis*, 2009, 29(8):1297-300.

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