

Isovitexin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Isovitexin

Catalog No.: CFN98620

Cas No.: 38953-85-4

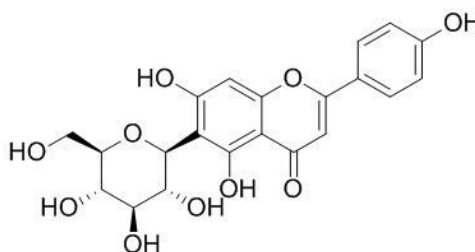
Purity: >=98%

M.F: C₂₁H₂₀O₁₀

M.W: 432.38

Physical Description: Yellow powder

Synonyms: (1S)-1,5-anhydro-1-[5,7-dihydroxy-2-(4-hydroxyphenyl)-4-oxo-4H-chromen-6-yl]-D-glucitol; 6-beta-D-Glucopyranosyl-5,7-dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one.



[Intended Use]

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

[Source]

The seeds of *Vitex trifolia* L.

[Biological Activity or Inhibitors]

Isovitexin, a food phytochemical contained in dietary rice products, it can suppress lipopolysaccharide-mediated inducible nitric oxide synthase through inhibition of NF-kappa B in mouse macrophages. ^[1]

Isovitexin has antioxidant properties, it inhibits xanthine oxidase with an IC50 value of 15.2 microM, it may protect cells from oxidative stress. ^[2]

Isovitexin and vitexin are C-glycosyl bioflavonoids, exhibit in vivo α -glucosidase inhibition, show a strong antihyperglycemic action. ^[3,4]

Isovitexin exerts anti-inflammatory and anti-oxidant activities on lipopolysaccharide-induced acute lung injury by inhibiting MAPK and NF- κ B and activating HO-1/Nrf2 pathways. ^[5]

Isovitexin has neuroprotective effect against glutamate-induced cell damage in mice hippocampal slices. ^[6]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method] ^[7]

Mobile phase: Methanol- H₂O-Acetic acid=35:65:1;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 340 nm.

[Storage]

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

[References]

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- [3] C.Y. Choo, N.Y. Sulong, F. Man, *et al. J. Ethnopharmacol.*, 2012, 142(3):776-81.
- [4] Folador P, Cazarolli L H, Gazola A C, *et al. Fitoterapia*, 2010, 81(8):1180-7.
- [5] Lv H, Yu Z, Zheng Y, *et al. Int. J. Biol. Sci.*, 2016, 12(1):72-86.
- [6] Santos K C D, Borges T V, Olescowicz G, *et al. J. Pharm. Pharmacol.*, 2016, 68(2): 282-91.
- [7] Li H Y, Sun J Y, Zhang J M, *et al. Chinese Traditional Patent Medicine*, 2004, 26(3): 208-10.

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