

Anhydroicaritin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Anhydroicaritin

Catalog No.: CFN98526

Cas No.: 38226-86-7

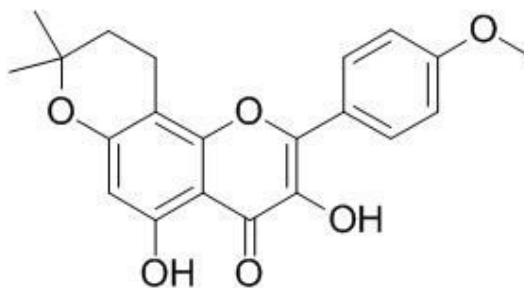
Purity: >=98%

M.F: C₂₁H₂₀O₆

M.W: 368.38

Physical Description: Yellow powder

Synonyms: 3,5-Dihydroxy-4'-methoxy-6",6"-dimethyl-4",5"-dihydropyrano[2",3":7,8]-flavone.



[Intended Use]

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

[Source]

The roots of *Epimedium brevicornu Maxim.*

[Biological Activity or Inhibitors]

Anhydroicaritin can improve diet-induced obesity and hyperlipidemia and alleviate insulin resistance by suppressing SREBPs activation, it can serve as a leading compound for pharmacological control of metabolic diseases.^[1]

Anhydroicaritin has the potential of stimulating the formation of mineralization nodules and further speeding up the formation of bone, indicates that it may be a potential candidate for bone regenerative medicine.^[2]

Anhydroicaritin has strong activity in scavenging DPPH radical ,and effective inhibition against lipid peroxidation.^[3]

Anhydroicaritin possesses significant protective effects on the zymosan-induced peritonitis mice, which may be associated with the regulation of Ca^{2+} , influx in macrophages and iNOS expression.^[4]

Anhydroicaritin exhibits immunosuppressive effect on the mouse macrophages stimulated by LPS, it is promising to be developed as an immunosuppressive reagent.^[5]

[Solvent]

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

[HPLC Method]^[6]

Mobile phase: 0.1% Formic acid in water- Acetonitrile,gradient elution ;

Flow rate:0.6 ml/min;

Column temperature: 25°C;

The wave length of determination:270 nm.

[Storage]

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

[References]

- [1] Zheng Z G, Zhou Y P, Zhang X, *et al. Biochem. Pharmacol.*, 2016 Dec 15;122:42-61.
- [2] Li Y, Zhang X, Peng H, *et al. Nat. Prod. Commun.*, 2012 Nov;7(11):1461-4.
- [3] Bao Y, Yang J X, Sun R G. *Journal of Shaanxi Normal University*, 2012, 40(3):73-6.
- [4] Lai X, Huang X, Zeng Y. *Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi*, 2013 Oct;29(10):1036-9.
- [5] Lai X Q, Huang X Y, Zeng Y Y. *Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi*, 2012 Apr;28(4):374-6.
- [6] Huang M N, Zhou Y N, Niu Q, *et al. Academic Journal of Second Military Medical University.*, 2015, 36(12):1352-5.

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