

Magnoflorine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Magnoflorine

Catalog No.: CFN98071

Cas No.: 2141-09-5

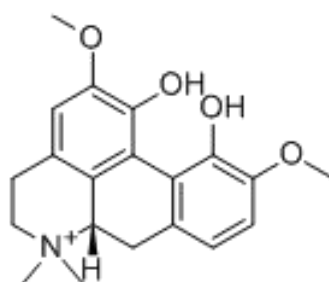
Purity: >=98%

M.F: C₂₀H₂₄NO₄

M.W: 342.41

Physical Description: Powder

Synonyms: (+)-Magnoflorine; Escholin; Escholine; Thalictin; Thalictrine; a-Magnoflorine; 4H-Dibenzo[de,g]quinolinium, 5,6,6a,7-tetrahydro-1,11-dihydroxy-2,10-dimethoxy-6,6-dimethyl-, (S)-; 6aa-Aporphinium, 1,11-dihydroxy-2,10-dimethoxy-6-methyl- (8Cl).



[Intended Use]

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

[Source]

The flower of *Magnolia liliiflora* Desr.

[Biological Activity or Inhibitors]

Magnoflorine, an alkaloid isolated from coptidis rhizoma, exerts an inhibitory effect against Cu²⁺-induced lipid peroxidation of high density lipoprotein (HDL), has beneficial properties on protecting human HDL against lipid peroxidation.^[1]

Magnoflorine possesses high activity as α -glucosidase inhibitor in vitro and in vivo, has antidiabetic potential activity.^[2]

Sinomeni Caulis et Rhizoma (SR) has sedative and anxiolytic effects, probably mediated by magnoflorine through a GABAergic mechanism of action. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Methanol -Acetic acid (pH 3.0)- H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 265 nm.

[Storage]

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

[References]

[1] Hung T M, Lee J P, Min B S, *et al. Biol. Pharmaceut. Bull.*, 2007, 30(6):1157-60.

[2] Patel M B, Mishra S M. *J. Funct. Foods*, 2012, 4(1):79-86.

[3] Jb D L P, Lee H L, Yoon S Y, *et al. J. Nat. Med.*, 2013, 67(4):814-21.

[4] Yan R, Yu S, Liu H, *et al. J. Chromatogr. Sci.*, 2015, 53(4):598-602.

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