

Liensinine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Liensinine

Catalog No.: CFN99580

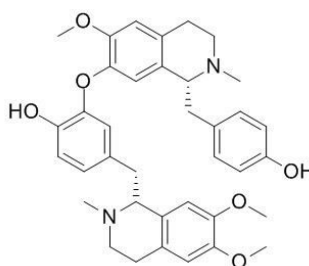
Cas No.: 2586-96-1

Purity: >=98%

M.F: C₃₇H₄₂N₂O₆

M.W: 610.75

Physical Description: White powder



Synonyms: 4-[[[(1R)-6,7-dimethoxy-2-methyl-3,4-dihydro-1H-isoquinolin-1-yl]methyl]-2-[[[(1R)-1-[(4-hydroxyphenyl)methyl]-6-methoxy-2-methyl-3,4-dihydro-1H-isoquinolin-7-yl]oxy]phenol]; 2-methyl-1-isoquinolinyl]methyl]-2-[[[(1R)-1,2,3,4-tetrahydro-1-[(4-hydroxyphenyl)methyl]-6-methoxy-2-methyl-7-isoquinolinyl]oxy]-]; Phenol, 4-[[[(1R)-1,2,3,4-tetrahydro-6,7-dimethoxy-]; Liensinine perchlorate.

[Intended Use]

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

[Source]

The plantule of *Nelumbo nucifera Gaertn.*

[Biological Activity or Inhibitors]

Liensinine and neferine, a kind of isoquinoline alkaloid, can antagonize the ventricular arrhythmias, have inhibition of human ether-a-go-go-related gene (hERG). [1]

Liensinine inhibits late-stage autophagy/mitophagy through blocking autophagosome-lysosome fusion, it could potentially be further developed as a novel autophagy/mitophagy inhibitor, and a combination of liensinine with classical chemotherapeutic drugs could represent a novel therapeutic strategy for treatment of breast cancer.[2]

Liensinine exerts remarkable effect against thrombosis and possesses strong effect against platelet aggregation and coagulation. [3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Methanol- 0.2 M KH₂PO₄-0.2 M NaOH- Methylamine =71:17:12:0.002,(pH 9.2-9.3);

Flow rate: 0.8 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 282 nm.

[Storage]

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

[References]

[1] Dong Z X, Zhao X, Gu D F, *et al. Cell. Physiol. Biochem.*, 2012, 29(3-4):431-42.

[2] Zhou J, Li G, Zheng Y, *et al. Autophagy*, 2015, 11(8):1259-79.

[3] Hui W, Gang L, Luo S D. *Chinese Pharmacological Bulletin*, 2010, 26(6):768-72.

[4] Huang Y, Zhao L, Bai Y, *et al. Arzneimittel-Forsch.*, 2011, 61(6):347-52.

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