

Coclaurine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Coclaurine

Catalog No.: CFN98769

Cas No.: 486-39-5

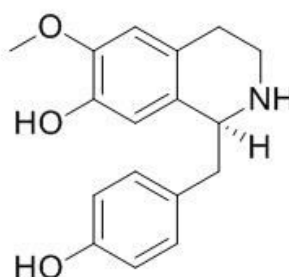
Purity: > 95%

M.F: C₁₇H₁₉NO₃

M.W: 285.3

Physical Description: Powder

Synonyms: 7-Isoquinolinol, 1,2,3,4-tetrahydro-1-[(4-hydroxyphenyl)methyl]-6-methoxy-, (1R)-.



[Intended Use]

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

[Source]

The root of *Coptis chinensis* Franch.

[Biological Activity or Inhibitors]

(+)-R-Coclaurine and (+)-S-reticuline show negative inotropic effects.^[1]

Coclaurine derivatives and of paeoniflorin derivatives have neuromuscular blocking actions.^[2]

d-Coclaurine has a neuroleptic-like property in blocking effects of dopaminergic stimulating agents. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile- 50 mM Ammonium acetate buffer solution, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 280 nm.

[Storage]

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

[References]

[1] Kimura I, Chui LH, Fujitani K, *et al. Jap. J. Pharmacol.*, 1989, 50(1):75-8.

[2] Kimura M, Kimura I, Takahashi K. *Planta Med.*, 1982, 45(45):136.

[3] Watanabe H, Ikeda M, Watanabe K, *et al. Planta Med.*, 1981, 42(3):213-22.

[4] Yang H M. *China Chemical Trade*, 2015, (4):149-50.

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