

(+)-Corynoline Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: (+)-Corynoline

Catalog No.: CFN99745

Cas No.: 18797-79-0

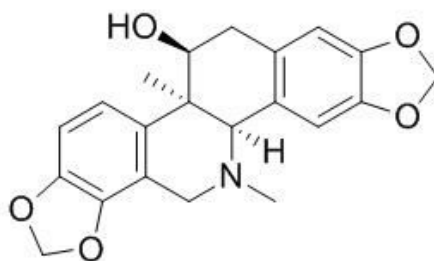
Purity: >=98%

M.F: C₂₁H₂₁NO₅

M.W: 367.40

Physical Description: Powder

Synonyms: (5bR)-5b α ,13-Dimethyl-5b α ,6,7,12b α ,13,14-hexahydro[1,3]benzodioxolo[5,6-c]-1,3-dioxolo[4,5-i]phenanthridine-6 β -ol; 13-Methylchelidonan-11 β -ol.



[Intended Use]

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

[Source]

The tubers of *Corydalis ambigua*.

[Biological Activity or Inhibitors]

Corynoline, isolated from the aerial parts of *Corydalis incisa*, has inhibitory effect on the acetylcholinesterase with reversible and noncompetitive.^[1]

Corynoline exhibits the potent anti-inflammatory and/or immunosuppressive activity, the potent inhibitory activity of corynoline for the ICAM-1/LFA-1 adhesion and would be important on developing the clinically usable drugs for the inflammatory diseases.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Methanol -15 m M Potassium dihydrogen phosphate/potassium phosphate dibasic (pH 6.70)=70:30 ;

Flow rate: 0.8 ml/min;

Column temperature: 30 °C;

The wave length of determination: 289 nm.

[Storage]

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

[References]

[1] Kim D K. *Arch. Pharm. Res.*, 2002, 25(6):817-9.

[2] Kamigauchi M, Noda Y, Nishijo J, *et al. Bioorg.Med.Chem.*, 2005, 13(5):1867-72.

[3]Huang G, Yang H J,Li F M.*China Journal of Chinese Materia Medica*, 2003, 28(4): 346-9.

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