

Acetylcorynoline Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Acetylcorynoline

Catalog No.: CFN99749

Cas No.: 18797-80-3

Purity: >=98%

M.F: C₂₃H₂₃NO₆

M.W: 409.43

Physical Description: Cryst.

Synonyms: O-acetyl-13-methyl-chelidonine; (+)-Corynolin-acetat;

(5bR)-6t-acetoxy-5b,13-dimethyl-(5br,12bc)-5b,6,7,12b,13,14-hexahydro-[1,3]dioxolo[4,5-

i][1,3]dioxolo[4',5':4,5]benzo[1,2-c]phenanthridine.

[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]

Acetylcorynoline has anti-inflammatory properties, it also has potential to improve parkinson's disease, it may exert its effects by decreasing egl-1 expression to suppress apoptosis pathways and by increasing rpn5 expression to enhance the activity of proteasomes.^[1]

Acetylcorynoline may be one of the potent immunosuppressive agents through the blockage of dendritic cells maturation and function.^[2]

Acetylcorynoline has protective action against experimental liver injury in mice.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Methanol-15 mM Potassium dihydrogen phosphate/potassium phosphate dibasic (pH 6.70)=70:30; Flow rate: 0.8 ml/min; Column temperature: Room Temperature; The wave length of determination: 289 nm.

[Storage]

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

[References]

[1] Fu R H, Wang Y C, Chen C S, et al. Neuropharmacology, 2014, 82:108-20.

[2] Fu R H, Wang Y C, Liu S P, et al. Plos One, 2013, 8(3):e58398.

[3] Wei H L, Liu G T. Yao Xue Xue Bao, 1997, 32(5):331-6.

[4] Huang G, Yang H J, Li F M. Zhongguo Zhong yao za zhi, 2003, 28(4):346-9.

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