

Allocryptopine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Allocryptopine

Catalog No.: CFN98254

Cas No.: 24240-04-8

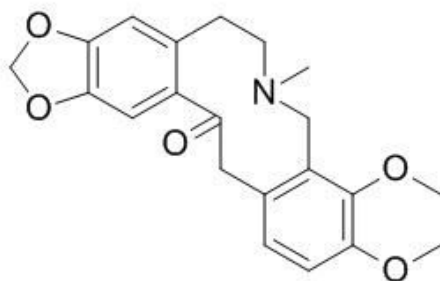
Purity: > 95%

M.F: C₂₁H₂₃NO₅

M.W: 369.4

Physical Description: Powder

Synonyms: beta-Allocryptopine.



[Intended Use]

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

[Source]

The herbs of *Macleaya cordata*.

[Biological Activity or Inhibitors]

Allocryptopine and protopine increase mRNA levels of cytochromes P450 1A in human

hepatocytes and HepG2 cells independently of AhR.^[1]

Allocryptopine induces a relaxing effect on the ileum by inhibiting phosphodiesterase enzyme, and thus elevating cellular cAMP and its contractile effect on the urinary bladder by affecting alpha-adrenergic receptors in this tissue.^[2]

Allocryptopine and benzyltetrahydropalmatine can block human ether-a-go-go related gene (hERG) potassium channels expressed in HEK293 cells.^[3]

Allocryptopine has certain effects on anti-injury for hepatocyte, ameliorating liver function, and prohibiting hepatic fibrosis.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile- 0.2% Phosphoric acid and BmimBF₄ in water, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 270 nm.

[Storage]

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

[References]

[1] Vrba J, Vrublova E, Modriansky M, *et al. Toxicol. Lett.*, 2011, 203(2):135-41.

[2] Abughalyun Y, Masalmeh A, Alkhalil S. *Gen. Pharmacol.*, 1997 Oct; 29(4):621-3.

[3] Lin K, Liu Y, Xu B, *et al. Acta Pharmacol. Sin.*, 2013 Jun; 34(6):847-58.

[4] Xiao L, Zeng J G, Liu L, *et al. Chinese Traditional & Herbal Drugs*, 2011, 42(6):1158-63.

[5] Chen Y, Li R, Gao R, *et al. Analytical Methods*, 2016, 8(12):2645-52.

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