

Crebanine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Crebanine

Catalog No.: CFN98275

Cas No.: 25127-29-1

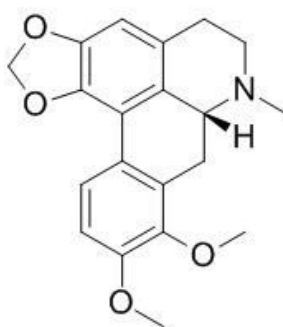
Purity: > 95%

M.F: C₂₀H₂₁NO₄

M.W: 339.4

Physical Description: Cryst.

Synonyms: 9,10-Dimethoxy-7-methyl-6,7,7a,8-tetrahydro-5H-[1,3]benzodioxolo[6,5,4-de]benzo[g]quinoline.



[Intended Use]

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

[Source]

The herbs of *Stephania yunnanensis*.

[Biological Activity or Inhibitors]

Crebanine has antiarrhythmic effects.^[1]

Crebanine can significantly improve the cognitive deficits induced by scopolamine, via the α -7 nicotinic acetylcholine receptor, crebanine or its scaffold can be used as the starting point to develop a drug for Alzheimer's disease.^[2]

Crebanine exhibits anticancer activity, it can reduce TNF- α -induced cancer cell proliferation, invasion, and survival by suppressing NF- κ B activity and expression profile of its downstream genes.^[3]

Crebanine displays antiinflammatory properties, which may stem from the inhibition of proinflammatory mediators via suppression of the NF- κ B, AP-1, MAPKs, and Akt signaling pathways.^[4]

Crebanine has significant analgesic action, it can strongly inhibit the contraction of vas deferentia induced by electrical stimulation.^[5]

[Solvent]

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

[HPLC Method]^[6]

Mobile phase:(Methanol-water-10%triethylamine=50:50:0.5)-(Methanol-10% triethylamine =100:0.5),gradient elution;

Flow rate:1.0 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] Yu Z P, Mu Y S, Zhao Z X, *et al. Zhongguo Zhong Yao Za Zhi*,1992,17(11):685-7.

- [2] Rojsanga P, Boonyarat C, Utsintong M, *et al. Life Sci.*,2012, 91(3-4):107-14.
- [3] Yodkeeree S, Pompimon W, Limtrakul P. *Tumour Biol.*,2014 Sep;35(9):8615-24.
- [4] Intayoung P, Limtrakul P, Yodkeeree S. *Biol. Pharm. Bull.*,2016;39(1):54-61.
- [5] Lin Q, Yang L, Duan X H. *Natural Product Research & Development*,2011,23(2):341.
- [6] Ma Y S, Zhang Z L, Zhou F P. *West China Journal of Pharmaceutical Sciences*, 2006, 21(2):197-9.

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