

Dihydrosanguinarine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Dihydrosanguinarine

Catalog No.: CFN92810

Cas No.: 3606-45-9

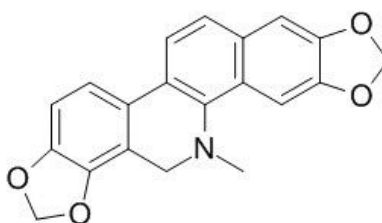
Purity: >=95%

M.F: C₂₀H₁₅NO₄

M.W: 333.1

Physical Description: Powder

Synonyms: 13-Methyl-13,14-dihydro[1,3]benzodioxolo[5,6-c][1,3]dioxolo[4,5-i]phenanthridine.



[Intended Use]

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

[Source]

The herbs of *Chelidonium majus*.

[Biological Activity or Inhibitors]

Dihydrosanguinarine shows cytotoxicity in human leukemia HL-60 cells, it can cause necrosis and apoptosis of HL-60 cells.^[1]

Dihydrosanguinarine and dihydrochelerythrine have antiparasitic efficacy against *Ichthyophthirius multifiliis* in richadsin (*Squaliobarbus curriculus*).^[2]

Dihydrosanguinarine and dihydrochelerythrine exhibit high antifungal activity against *Botrytis cinerea* Pers, they inhibit spore germination in vitro in a concentration-dependent manner; they also show potent protective and curative effects against *Erysiphe graminis* and *B. cinerea* in vivo. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Methanol-0.02M KH₂PO₄, gradient elution ;

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] Vrba J, Dolezel P, Vicar J, *et al. Toxicol. in Vitro*, 2009, 23(4):580-8.

[2] Yao J Y, Zhou Z M, Li X L, *et al. Vet. Parasitol.*, 2011, 183(1-2):8-13.

[3] Feng G, Zhang J, Liu Y Q. *Nat. Prod. Res.*, 2011, 25(11):1082-9.

[4] Zheng J F, Jing Y, Qin M J. *Chinese Journal of Experimental Traditional Medical Formulae*, 2012, 18(21):121-4.

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