

6-Acetyldihydrochelerythrine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 6-Acetyldihydrochelerythrine

Catalog No.: CFN98233

Cas No.: 22864-92-2

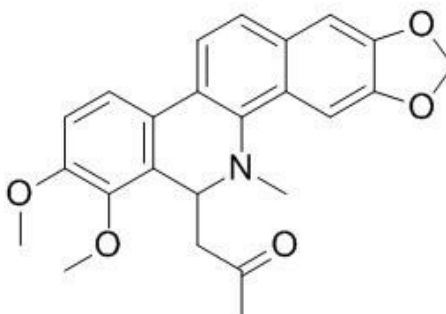
Purity: > 95%

M.F: C₂₄H₂₃NO₅

M.W: 405.5

Physical Description: Yellow powder

Synonyms: 1-[(13S)-1,2-dimethoxy-12-methyl-12,13-dihydro[1,3]benzodioxolo[5,6-c]phenanthridin-13-yl]propan-2-one.



[Intended Use]

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

[Source]

The root bark of *Toddalia aculeata*.

[Biological Activity or Inhibitors]

(+/-)-6-Acetyldihydrochelerythrine exhibits significant anti-HIV activity in H9 lymphocytes with EC₅₀ and TI (Therapeutic Index) values of 1.77 microg/mL and 14.6, respectively.^[1]

6-Acetyldihydrochelerythrine is a potent inducer of apoptosis in HCT116 and SW620 cell lines, it displays potent cytotoxic activity in human HCT116 and SW620 colon carcinoma cells, to a higher extent than 5-fluorouracil (5-FU), the cornerstone chemotherapeutic agent in colon cancer.^[2]

6-Acetyldihydrochelerythrine exhibits significant antioxidant activities.^[3]

[Solvent]

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

[HPLC Method]

Not data available.

[Storage]

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

[References]

[1] Chang Y C, Hsieh P W, Chang F R, *et al. Planta Med.*,2003 Feb;69(2):148-52.

[2] Mansoor T A, Borralho P M, Luo X, *et al.J. Nat. Prod.*,2014 Aug 22;77(8):1825-30.

[3] Pérez RM, Vargas R, Martínez FJ, *et al. Ars Pharmaceutica*,2003,44(1):5-21.

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