

Pseudolycorine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Pseudolycorine

Catalog No.: CFN98548

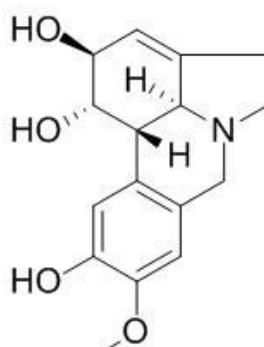
Cas No.: 29429-03-6

Purity: >=98%

M.F: C₁₆H₁₉NO₄

M.W: 289.33

Physical Description: Powder



Synonyms: (1 α ,2 β)-9-Methoxy-3,12-didehydrogalanthan-1,2,10-triol; 1H-pyrrolo[3,2,1-de]phenanthridine-1,2,10-triol, 2,4,5,7,11b,11c-hexahydro-9-methoxy-, (1S,2S,11bS,11cS)-.

[Intended Use]

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

[Source]

The bulbus of *Lycoris radiata* (L. Herit.) Herb.

[Biological Activity or Inhibitors]

Pseudolycorine can halt HeLa cell growth at 10^{-1} mM or lower concentrations, it at its growth inhibitory concentrations blocks protein synthesis in ascites cells and stabilize HeLa cell polysomes in vivo.^[1]

Pseudolycorine exhibits cytotoxic profiles against cancer cell lines.^[2]

Pseudolycorine and haemanthamine show good activity in in vitro assays against *Trypanosoma brucei rhodesiense*, *T. cruzi* and *Plasmodium falciparum* with IC₅₀ values in the range of 3.66 uM or lower. ^[3]

Pseudolycorine, primarily studied as a new antiviral agent derived from the screening of medicinal plants of the Pacific area, has been shown to exert a superior prolongation effect on the life span of established Rauscher leukemic mice having palpable splenomegaly, in comparison with standard antileukemic drugs, it also shows remarkable antileukemic activity.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: 1% Aqueous ammonium acetate solution(pH 5.8)-Acetonitrile,gradient elution ;

Flow rate: 1.5 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 280 nm.

[Storage]

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

[References]

- [1] Jimenez A, Santos A, Alonso G, *et al. Biochim. Biophys. Acta*, 1976, 425(3):342-8.
- [2] Goietsenoven G V. *J. Nat. Prod.*, 2010, 73(7):1223-7.
- [3] Osorio E J, Berkov S, Brun R, *et al. Phytochem. Lett.*, 2010, 3(3):161-3.
- [4] Furusawa E, Furusawa S, Morimoto S, *et al. Proc. Soc. Exp. Biol. Med.*, 1971 ,136(4): 1168-73.
- [5] Viladomat F, Llabrés J M, Bastida J, *et al. Physiol. Plantarum*, 1986, 68(4):657-61.

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