Natural Products

ChemFaces

Narciclasine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Narciclasine

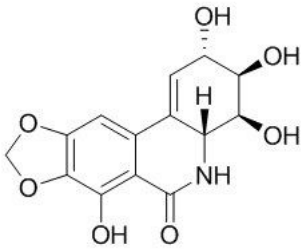
Catalog No.: CFN97854

Cas No.: 29477-83-6

Purity: >=98%

M.F: $C_{14}H_{13}NO_7$

M.W: 307.25



Physical Description: Powder

Synonyms:(2S,3R,4S,4aR)-2,3,4,7-Tetrahydroxy-3,4,4a,5-tetrahydro[1,3]dioxolo[4,5-j]phenanthridin-6(2H)-one;Lycoricidinol.

[Intended Use]

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

[Source]

The tubers of *Narcissus tazetta*.

[Biological Activity or Inhibitors]

Narciclasine is an antimitotic substance from Narcissus bulbs, it has anti-tumor activity.[1]

Narciclasine can induce apoptosis by activation of the death receptor and/or mitochondrial pathways in cancer cells but not in normal fibroblasts.[2]

Narciclasine, a plant growth modulator, can inhibit seed germination and seedling growth of rice and Chinese cabbage in a dose-dependent manner.[3]

Lycoricidinol(Narciclasine) can significantly suppress the degree of swelling of adjuvant-treated as well as untreated feet, suggests that it may be a candidate as a the drug having marked suppressive activity for inflammation which may be influenced by calprotectin.[4]

[Solvent]

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

[HPLC Method][5]

Mobile phase: 0.05% Formic acid in water- 0.05% Formic acid in acetonitrile,gradient elution ;

Flow rate: 0.25 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 250 nm.

[Storage]

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

[References]

[1] Ceriotti G. *Nature, 1967, 213(5076):595-6.*

[2] Dumont P, Ingrassia L, Rouzeau S, *et al. Neoplasia, 2007, 9(9):766-76.*

[3] Lefranc F, Sauvage S, Van G G, *et al. Mol. Cancer Ther., 2009, 8(7):1739-50.*

[4] Mikami M, Kitahara M, Kitano M, *et al. Biol. Pharm. Bull.,1999,22(7):674-8.*

[5] Mijatovic T, Mahieu T, Bruyère C, *et al. Neoplasia, 2008, 10(6):573-86.*

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