

Dehydrotumulosic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Dehydrotumulosic acid

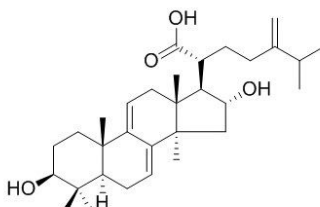
Catalog No.: CFN92837

Cas No.: 6754-16-1

Purity: >=95%

M.F: C₃₁H₄₈O₄

M.W: 484.71



Physical Description: Powder

Synonyms: 3 β ,16 α -Dihydroxy-24-methylene-5 α -lanosta-7,9(11)-dien-21-oic acid;

3 β ,16 α -Dihydroxy-24-methylenelanosta-7,9(11)-dien-21-oic acid.

[Intended Use]

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

[Source]

The root of *Wolfiporia cocos* (Schw.) Ryv.

[Biological Activity or Inhibitors]

Dehydrotumulosic acid has anti-inflammatory activity, it can significantly diminish the mouse ear edema induced by ethyl phenylpropionate.^[1]

Dehydrotumulosic acid and pachymic acid are active as inhibitors of phospholipase A2 from snake venom, dehydrotumulosic acid exhibits an IC50 of 0.845 mM.^[2]

Dehydrotumulosic acid has anti-hyperglycemic effect to a greater extent than dehydrotrametenolic acid and pachymic acid, they reduce postprandial blood glucose levels in db/db mice via enhanced insulin sensitivity irrespective of PPAR-.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Methanol -Acetonitrile-2% Glacial acetic acid =10:22:70 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 243 nm.

[Storage]

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

[References]

[1] Giner E M, Máñez S, Recio M C, *et al. Planta Med.*, 2000, 66(3):221-7.

[2] Cuélla M J, Giner R M, Recio M C, *et al. J. Nat. Prod.*, 1996, 59(10):977-9.

[3] Li T H, Hou C C, Chang C L, *et al. Evid. Based Compl. Alt.*, 2011(5):128402.

[4] Song Z, Bi K, Luo X. *J. Chromatogr.Sci.*, 2002, 40(40):198-200.

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