Natural Products

ChemFaces

Trametenolic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Trametenolic acid

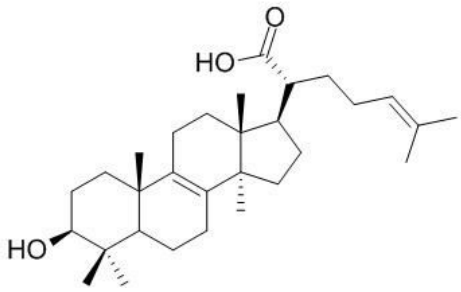
Catalog No.: CFN92366

Cas No.: 24160-36-9

Purity: > 95%

M.F: $C_{30}H_{48}O_3$

M.W: 456.70



Physical Description: Powder

Synonyms: (3beta,10xi,13xi,17xi,20xi)-3-hydroxylanosta-8,24-dien-21-oic acid.

[Intended Use]

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

[Source]

The sclerotium of *Poria cocos(Schw.)Wolf.*

[Biological Activity or Inhibitors]

Trametenolic acid shows anti-inflammatory activities and also shows obviously

cytotoxicity on human prostatic carcinoma cell PC3 and breast carcinoma MDA-MB-231 cell.[1]

Trametenolic acid shows inhibitory response against promastigotes and amastigotes of Leishmania amazonensis Lainson and Shaw (IC50 promastigotes 2.9 ± 0.1 uM and IC50 amastigotes 1.6 ± 0.1uM), therefore, trametenolic acid could be regarded as a promising lead for the synthesis of compounds with antileishmanial activity.[2]

Trametenolic acid can protect mice against oxidative stress injury induced by CCl4. [3]

[Solvent]

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

[HPLC Method][4]

HPLC-ELSD:

Mobile phase: Methanol -H2O=92:2 ;

Flow rate: 1.0 ml/min;

Column temperature: 25 ℃;

Drift tube temperature: 90 ℃;

Flow rate of nebuliser gas : 1.6L/min.

[Storage]

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

[References]

[1] Ma L, Chen H, Dong P, *et al. Food Chem., 2013, 139(1-4):503-8.*

[2] Leliebre-Lara V, Monzote F L, Pferschy-Wenzig E M, *et al. Molecules, 2016, 21(8): 1045-55.*

[3] Zhao F Q, Yan L, Cui X H, *et al. Acta Pharm. Sin., 2012, 47(5):680-4.*

[4] Du D Y, Feng Z , Chen X, *et al. Phytochem. Analysis, 2011, 22(5):419-23.*

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