Natural Products

ChemFaces

Demethylzeylasteral Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Demethylzeylasteral

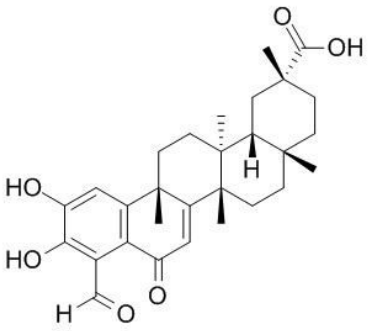
Catalog No.: CFN90136

Cas No.: 107316-88-1

Purity: >=98%

M.F: $C_{29}H_{36}O_6$

M.W: 480.60



Physical Description: Powder

Synonyms:(9beta,13alpha,14beta,20alpha)-2,3-Dihydroxy-9,13-dimethyl-6,23-dioxo-24,25,26-trinoroleana-1,3,5(10),7-tetraen-29-oic acid;

A-Friedo-24-noroleana-1,3,5(10),7-tetraen-29-oicacid.

[Intended Use]

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

[Source]

The herbs of *Tripterygium wilfordii Hook.f.*

[Biological Activity or Inhibitors]

Demethylzeylasteral exhibits dose-dependent inhibitory behaviour towards estradiol glucuronidation.[1]

Demethylzeylasteral exhibits strong inhibition towards UDP-glucuronosyltransferase (UGT) 1A6 and 2B7, and the inhibition kinetic parameters (Ki) are calculated to be 0.6 uM and 17.3 uM for UGT1A6 and UGT2B7, respectively.[2]

Demethylzeylasteral has strong immunosuppressive activity, suggests a possible clinical use for demethylzeylasteral as an immunosuppressive agent in the fields of organ transplantation and autoimmune disorders. [3]

Demethylzeylasteral has antifertility activity, it concentration-dependently and in a partially reversible manner can inhibit the Ca(2+) current in spermatogenic cells with an IC(50) of 8.8 microg/ml, and it also can inhibit significantly the sperm acrosome reaction initiated by progesterone.[4]

Demethylzeylasteral shows antimicrobial activity against Gram-positive bacteria and the yeast Candida albicans, it exhibits the fastest inhibition against cell wall synthesis.[5]

[Solvent]

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

[HPLC Method][6]

Mobile phase: 0.1% Formic acid in water- Acetonitrile,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 268 nm.

[Storage]

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

[References]

[1] Liu S L, Zhang S Y, Wang M J, *et al. Eur. J. Drug Metab. Ph., 2014, 39(2):99-102.*

[2] Zhao J W, Wang G H, Chen M, *et al. Molecules, 2012, 17(8):9469-75.*

[3] Xu W, Lin Z, Yang C, *et al. Int. Immunopharmacol., 2009, 9(7-8):996-1001.*

[4] Bai J P, Shi Y L, Fang X, *et al. Eur. J. Pharmacol. ,2003,464(1):9-15.*

[5] De L L, Beltrán B, Moujir L. *Planta Med., 2005, 71(4):313-9.*

[6] Wang T, Shen F, Su S, *et al. Bmc Complem. Altern. M., 2016, 16(1):476.*

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