

Dehydropachymic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Dehydropachymic acid

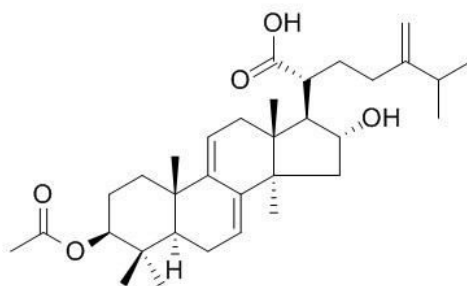
Catalog No.: CFN92742

Cas No.: 77012-31-8

Purity: > 95%

M.F: C₃₃H₅₀O₅

M.W: 526.75



Physical Description: Powder

Synonyms: (3β,16α)-3-(Acetyloxy)-16-hydroxy-24-methylenelanosta-7,9(11)-dien-21-oic acid; 9-Dehydropachymic acid; delta9(11)-Dehydropachymic 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]

Dehydropachymic acid exhibits moderate cytotoxicities, with IC₅₀ values of 20.5 microM against a human colon carcinoma cell line; it not only shows inhibitory activities as potent as etoposide used as a positive control on DNA topoisomerase II (36.2% inhibition at a concentration of 20 microM), but also inhibition of DNA topoisomerase I (60.7 inhibition at a concentration of 100 microM).[¹]

Dehydroeburiconic acid shows inhibitory activity against 12-O-tetradecanoylphorbol-13-acetate (TPA)-induced ear inflammatory oedema.[²]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile- 0.05% Phosphate acid in water ,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 241 nm.

[Storage]

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

[References]

[1] Li G, Xu M L, Lee C S, *et al. Arch. Pharm. Res.*, 2004, 27(8):829-33.

[2] Kaminaga T, Yasukawa K, Takido M, *et al. Phytother. Res.*, 1996, 10(7):581-4.

[3] Administrativa S. *Acta Pharm. Sin.*, 2010, 45(4):494-7.

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