



Dehydroabietic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Dehydroabietic acid

Catalog No.: CFN99822

Cas No.: 1740-19-8

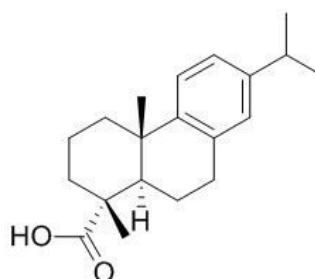
Purity: > 98%

M.F: C₂₀H₂₈O₂

M.W: 300.4

Physical Description: Oil

Synonyms: (1R,4aS,10aR)-1,4a-dimethyl-7-propan-2-yl-2,3,4,9,10,10a-hexahydrophenanthrene-1-carboxylic acid.



[Intended Use]

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

[Source]

The barks of *Pinus yunnanensis*.

[Biological Activity or Inhibitors]

Dehydroabietic acid (DHAA), a major poison to fishes in pulp and paper mill effluents, has toxicological and physiological effects, 20 µg l⁻¹ is close to the “minimum effective concentration” of DHAA to rainbow trout.^[1]

Dehydroabietic acid derivatives have been reported to display antisecretory and antipepsin effect in animal models, have gastroprotective activity in the HCl/EtOH-induced gastric lesions in mice as well as for cytotoxicity in human lung fibroblasts (MRC-5) and human epithelial gastric (AGS) cells. ^[2]

Dehydroabietic acid derivatives have antiulcer activity.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Methanol- 0.05% Acetic acid H₂O =83:17;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 238 nm.

[Storage]

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

[References]

[1] Oikari A, Lönn B E, Castrén M, *et al. Water Res.*, 1983, 17(1):81-9.

[2] Sepúlveda B, Astudillo L, Rodríguez J A, *et al. Pharmacol. Res.*, 2005, 52(5):429-37.

[3] Wada H, Kodato S, Kawamori M, *et al. Chem. Pharm. Bull.*, 1985, 33(4):1472-87.

[4] K. Hroboňová, Dr. J. Lehotay, I. Skačáni, *et al. J. Liq. Chromatogr. R. T.*, 2005, 28(11): 1725-35.

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