

Polyporenic acid C Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Polyporenic acid C

Catalog No.: CFN92739

Cas No.: 465-18-9

Purity: > 95%

M.F: C₃₁H₄₆O₄

M.W: 482.69

Physical Description: Powder

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

3-Oxo-16 α -hydroxy-24-methylene-5 α -lanosta-7,9(11)-diene-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]

Polyporenic acid C (PPAC), a lanostane-type triterpenoid from P. cocos, has inhibitory on

the growth of A549 nonsmall cell lung cancer cells (NSCLC), PPAC induces apoptosis

through the death receptor-mediated apoptotic pathway where the activation of caspase-8

leads to the direct cleavage of execution caspases without the involvement of the

mitochondria; furthermore, suppressed PI3-kinase/Akt signal pathway and enhanced p53

activation after PPAC treatment suggests this to be an additional mechanism for

apoptosis induction.[1]

Polyporenic acid C has antibacterial activity.[2]

Polyporenic acid C not only shows inhibitory activities as potent as etoposide used as a

positive control on DNA topoisomerase II (36.1% inhibition at a concentration of 20 µM),

but also inhibition of DNA topoisomerase I (55.8% inhibition at a concentration of 100

μM),against a human colon carcinoma cell line. [3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile- 0.05% H₃PO₄ in water, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 243nm.

[Storage]

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

[References]

[1] Ling H, Zhou L, Jia X, et al. Mol. Carcinogen., 2009, 48(6):498-507.

[2] Marcus S. Biochem.J., 1952, 50(4):516-7.

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

[4] Huan Y, Shen Y P, Chen B, et al. J. Liq. Chromatogr. R.T., 2011, 34(16):1772-82.

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