

Myricanone Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Myricanone

Catalog No.: CFN98413

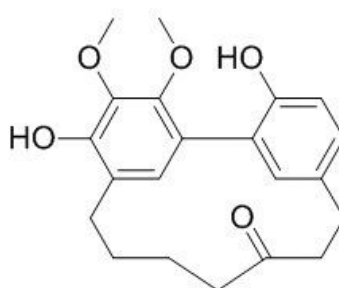
Cas No.: 32492-74-3

Purity: > 95%

M.F: C₂₁H₂₄O₅

M.W: 356.4

Physical Description: Powder



Synonyms: 3,15-Dihydroxy-16,17-dimethoxytricyclo[12.3.1.1~2,6~]nonadeca-1(18),2(19),3,5,14,16-hexaen-9-one.

[Intended Use]

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

[Source]

The root bark of *Myrica cerifera* L.

[Biological Activity or Inhibitors]

Myricanone induces apoptosis in HepG2 cells through generation of ROS, depolarization of the mitochondrial membrane, early release of cytochrome-c, down-regulation of HSP70 and activation of a caspase cascade, thus, it has great potential for use in formulating an effective drug against both hepatotoxicity and hepatocellular cancer.^[1]

Myricanone can significantly increase the cell apoptosis rate of A549 cells and can block cell cycle of A549 cells in G0/G1 stage.^[2]

Myricanone displays significant antioxidant activity. ^[3]

Myricanone, myricanol, and myricetin are the main active principles of the aqueous ethanol extract of Myrica Cortex, show in vitro testosterone 5 α -reductase inhibitory activity and in vivo anti-androgenic activity using growth of flank organ in castrated Syrian hamsters and/or hair regrowth after shaving in testosterone-treated C57Black/6CrSlc mice.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile-H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 246 nm.

[Storage]

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

[References]

[1] Paul A, Das J, Das S, *et al.* *J. Acupunct. Meridian Stud.*, 2013, 6(4):188-98.

[2] Chen X, Tong Y L, Ren Z M, *et al.* *Chinese Journal of Modern Applied Pharmacy*,

2015, 32(1):14-7

[3] Ibrahim S R M, Gamal A Mohamed, Khedr A I M. *International Conference on New Horizons in Basic and Applied Science Icnhbas*. 2015.

[4] Matsuda H, Yamazaki M, Matsuo K, *et al. Biol. Pharm. Bull.*, 2001, 24(3):259-63.

[5] Han LQ, Jiang P, Jin S, *et al. Lishizhen Medicine and Materia Medica Research*, 2012, 23(2):396-8.

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