

beta-Thujaplicin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: beta-Thujaplicin

Catalog No.: CFN93995

Cas No.: 499-44-5

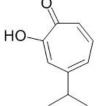
Purity: >=98%

M.F: C₁₀H₁₂O₂

M.W: 164.2

Physical Description: Powder

Synonyms: Hinokitiol; 2-Hydroxy-6-(propan-2-yl)cyclohepta-2,4,6-trien-1-one.



[Intended Use]

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

[Source]

The herbs of *Platycladus orientalis*.

[Biological Activity or Inhibitors]

beta-Thujaplicin can inhibit ultraviolet B-induced apoptosis in keratinocytes and strongly

suggest that the inhibitory mechanism is due to the antioxidant activity of metallothionein

induced by the agent.[1]

beta-Thujaplicin has antibacterial effect, it can inhibit all Staphylococcus aureus isolates

with MICs of 1.56-3.13 mg/L.[2]

beta-Thujaplicin has antifungal activity against 51 Malassezia pachydermatis strains, it

is an inexpensive and safe treatment with anti-inflammatory and deodorant effects that

can be recommended as an effective remedy for canine otitis externa. [3]

beta-Thujaplicin has ability to extract mitochondrial Mg++ and the prevention of the effects

of beta-thujaplicin by an excess of Mg++ in the medium, suggests a common mode of

action of beta-thujaplicin as a lipophilic chelator of Mg++ and other divalent cations.[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile-0.1%Phosphoric acid H2O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 50 °C;

The wave length of determination: 230 nm.

[Storage]

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

[References]

[1] Baba T, Nakano H, Tamai K, et al. J. Invest. Dermatol. 1998, 110(1):24-8.

[2] Arima Y, Nakai Y, Hayakawa R, et al. J. Antimicrob. Chemoth., 2003, 51(1):113-22.

[3] Nakano Y, Wada M, Tani H, et al. J. Vet. Med. Sci., 2005, 67(12):1243-7.

[4] Böhme G, Schönfeld P, Küster U, et al. Acta Biologica Et Medica Germanica, 1980, 39(11-12):1153-63.

[5] Daniels C R, Russell J H. J. Chromatogr. Sci., 2007, 45(5):281-5.

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