[Product Information]

Name: beta-Thujaplicin
Catalog No.: CFN93995
Cas No.: 499-44-5
Purity: >=98%
M.F: C_{10}H_{12}O_{2}
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 ]


**[Contact]**

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