[ Product Information ]

Name: Pinoresinol
Catalog No.: CFN98775
Cas No.: 487-36-5
Purity: > 98%
M.F: C$_{20}$H$_{22}$O$_{6}$
M.W: 358.4

Physical Description: Powder

Synonyms: 4-[(3S,3aR,6S,6aR)-6-(4-hydroxy-3-methoxyphenyl)-1,3,3a,4,6,6a-hexahydr
ofuro[3,4-c][furan-3-yl]-2-methoxyphenol.

[ Intended Use ]

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

[ Source ]

The bark of Eucommia ulmoides Oliver.
**[Biological Activity or Inhibitors]**

Pinoresinol, among plant lignans, has the strongest antiinflammatory properties by acting on the NF-κB signaling pathway in human intestinal Caco-2 cells.[1]

Pinoresinol-Rich Olives has chemopreventive, anticancer and anti-Inflammatory effects.[2]

Pinoresinol, a lignan of wide distribution in plants, is found to occur as a minor component in the defensive secretion produced by glandular hairs of caterpillars of the cabbage butterfly, Pieris rapae, serves for defense in a caterpillar.[3]

Pinoresinol can ameliorate CCl4-induced acute liver injury, and this protection is likely due to anti-oxidative activity and down-regulation of inflammatory mediators through inhibition of NF-kappaB and activating protein 1 (AP-1).[4]

(+) -Pinoresinol possesses fungicidal activities and therapeutic potential as an antifungal agent for the treatment of fungal infectious diseases in humans.[5]

**[Solvent]**

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

**[HPLC Method]**[6]

Mobile phase: Methanol- H2O=20:80;
Flow rate: 1.0 ml/min;
Column temperature: 40 °C;
The wave length of determination: 227 nm.

**[Storage]**

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

**[References]**


[Contact]

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