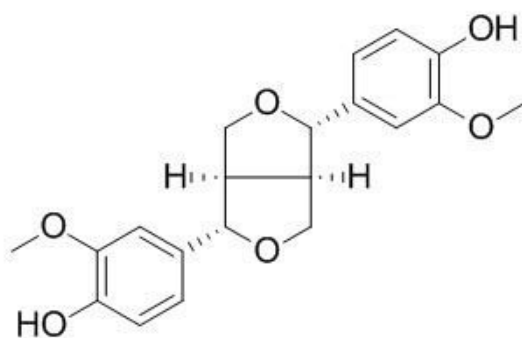


Pinoresinol Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Pinoresinol**Catalog No.:** CFN98775**Cas No.:** 487-36-5**Purity:** > 98%**M.F:** C₂₀H₂₂O₆**M.W:** 358.4**Physical Description:** Powder**Synonyms:** 4-[(3S,3aR,6S,6aR)-6-(4-hydroxy-3-methoxyphenyl)-1,3,3a,4,6,6a-hexahydrofuro[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- κ B 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]

[1] During A, Debouche C, Raas T, *et al. J. Nutr.*, 2012, 142(10):1798-805.

[2] Ricciardiello L, Boland C R, Romano M, *et al. US 20090048187 A1[P]*. 2009.

[3] Schroeder F C, Eisner T. *P. Natl. Acad. Sci. U.S.A.*, 2006, 103(42):15497-501.

[4] Kim H Y, Kim J K, Choi J H, *et al.* *J. Pharmacol. Sci.*, 2010, 112(1):105-12.

[5] Hwang B, Lee J, Liu Q H, *et al.* *Molecules*, 2010, 15(5):3507-16.

[6] Lin B, Shuai N. *Chinese Journal of Drug Application & Monitoring*, 2013(03):147-9.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com