

(-)-Pinoresinol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: (-)-Pinoresinol

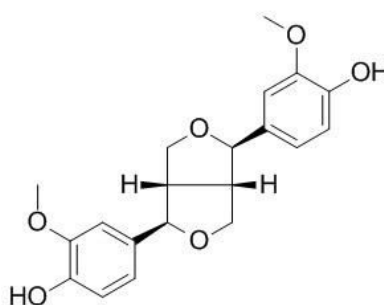
Catalog No.: CFN92287

Cas No.: 81446-29-9

Purity: > 95%

M.F: C₂₀H₂₂O₆

M.W: 358.4



Physical Description: Powder

Synonyms: 2,6-di(4-Hydroxy-3-methoxyphenyl)-3,7-dioxabicyclo[3.3.0]octane; (+)-Syringaresinol; Pinoresinol; (7S,7'S,8R,8'R)-3,3'-Dimethoxy-7,9':7',9'-diepoxylignane-4,4'-diol.

[Intended Use]

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

[Source]

The bark of *Eucommia ulmoides*.

[Biological Activity or Inhibitors]

Pinoresinol (PIN) 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- κ B and AP-1.^[1]

(+)-Pinoresinol possesses fungicidal activities and therapeutic potential as an antifungal agent for the treatment of fungal infectious diseases in humans.^[2]

Pinoresinol is the precursor of other dietary lignans that are present in whole-grain cereals, legumes, fruits, and other vegetables, PIN can cause an upregulation of the CDK inhibitor p21(WAF1/Cip1) both at mRNA and protein levels, suggests that this could be a mechanism by which PIN reduces proliferation and induces differentiation on HL60 cells.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-H₂O=20:80 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 230 nm.

[Storage]

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

[References]

[1] Hyoyeon K, Joonki K, Junho C, *et al. J. Pharmacol. Sci.* 2010,112(1):105-12.

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

[3] Mazza T. *Nutr. Cancer*, 2013, 65(8):1208-18.

[4] Zhou Z G, Jin C, Xu C, *et al. China Pharmacist*, 2010, 13(5):697-8.

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