

Myrislignan Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Myrislignan

Catalog No.: CFN99752

Cas No.: 171485-39-5

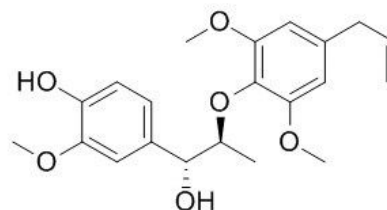
Purity: > 98%

M.F: C₂₁H₂₆O₆

M.W: 374.43

Physical Description: White powder

Synonyms: (aR)-alpha-[(1S)-1-[2,6-Dimethoxy-4-(2-propen-1-yl)phenoxy]ethyl]-4-hydroxy-3-methoxybenzenemethanol.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Ingredient in supplements, beverages;
7. Aromatics;
8. Others.

[Source]

The fruit of *Myristica fragrans* Houtt.

[Biological Activity or Inhibitors]

Myrislignan is a new kind of lignan isolated from *Myristica fragrans* Houtt, it may exert its antiinflammatory effects in LPS-stimulated macrophages cells by inhibiting the NF- κ B signalling pathway activation.^[1]

Myrislignan inhibits the proliferation of A549 cells in a dose- and time-dependent manner, it also significantly induces apoptosis and cell cycle arrest in A549 cells; those results reveal a potential mechanism for the anti-cancer effect of myrislignan on human lung cancer, while suggesting that myrislignan may be a promising compound for the treatment of lung cancer.^[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, Acetone.

[HPLC Method]^[3]

Mobile phase: Methanol -H₂O=80:20 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 270 nm.

[Storage]

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

[References]

[1] Hong J, Zheng G Z , Yu P J, *et al. Phytother. Res.*, 2012, 26(9):1320-6.

[2] Lu X G, Liu Y, Chen J X, *et al. J. Nat. Med.*, 2016, 8:1-10.

[3] Li F, Yang X. *Biomed. Chromatogr. BMC*, 2008, 22(6):601-5.

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