

Kaerophyllin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Kaerophyllin

Catalog No.: CFN97234

Cas No.: 75590-33-9

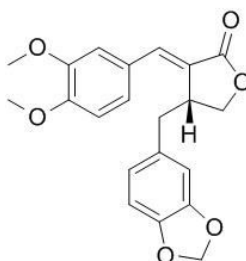
Purity: >95%

M.F: C₂₁H₂₀O₆

M.W: 368.38

Physical Description: Powder

Synonyms: (3E,4R)-4-(1,3-benzodioxol-5-ylmethyl)-3-[(3,4-dimethoxyphenyl)methylidene]dihydrofuran-2(3H)-one.



[Intended Use]

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

[Source]

The roots of *Bupleurum chinense* DC.

[Biological Activity or Inhibitors]

Kaerophyllin, a lignan, isolated from a widely used traditional Chinese herb, Bupleurum scorzonrifolium, leading to the inhibition of hepatic stellate cells (HSCs) activation in vitro; it protects the rat liver from TAA-caused injury and fibrogenesis by suppressing hepatic inflammation and inhibiting HSC activation, possibly through upregulation of PPAR- γ expression.^[1]

Kaerophyllin can inhibit apoptotic body-induced LX-2 activation and migration with downregulation of Akt/ERK phosphorylations and NF- κ B activity, suggests a novel platform for screening anti-fibrotic compounds with apoptotic bodies.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Methanol- H₂O=70:30 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 328 nm.

[Storage]

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

[References]

[1] Lee T F, Lin Y L, Huang Y T. *Eur. J. Clin. Invest.*, 2012, 42(6):607-16.

[2] Huang Y, Lee T, Lin Y. *Planta Med.* 2011, 77(12):1410-1410.

[3] Song D H, Xia Z S, Hua W Y, *et al.* *China Journal of Chinese Materia Medica*, 2000, 25(25):488-9.

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