

Dehydrodiisoeugenol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Dehydrodiisoeugenol

Catalog No.: CFN99750

Cas No.: 2680-81-1

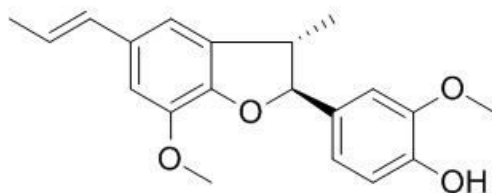
Purity: > 98%

M.F: C₂₀H₂₂O₄

M.W: 326.39

Physical Description: White powder

Synonyms: 2-Methoxy-4-[7-methoxy-3-methyl-5-[(Z)-prop-1-enyl]-2,3-dihydrobenzofuran-2-yl]phenol.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Aromatics;
6. Dairy products & desserts;
7. Spice flavor;
8. Others.

[Source]

The seeds of *Myristica fragrans* Houtt.

[Biological Activity or Inhibitors]

Dehydrodiisoeugenol(DDIE) significantly inhibits lipopolysaccharide (LPS)-stimulated phosphorylation-dependent proteolysis of inhibitor kappaB-alpha and transcriptional activity of NF-kappaB in the cells, it acts as a potent anti-inflammatory agent.^[1]

Dehydrodiisoeugenol can cross the blood-brain barrier rapidly and might be one of the main bioactive substances of nutmeg, the results provide fundamental data for evaluating the effects of DDIE on the central nervous system and to be developed into an effective anxiogenic agent.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Methanol : H₂O=80:20;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 270 nm.

[Storage]

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

[References]

[1] Murakami Y, Shoji M, Hirata A, *et al. Arch. Biochem. Biophys.*, 2005, 434(2):326-32.

[2] Zhang Y B, Zhu L Q, Yang X W. *Fitoterapia*, 2013, 84(3):47-53.

[3] Li F, Yang X. *Biomed. Chromatogr.*, 2008, 22(22):1206-12.

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