

3-Deoxysappanchalcone Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 3-Deoxysappanchalcone

Catalog No.: CFN92833

Cas No.: 112408-67-0

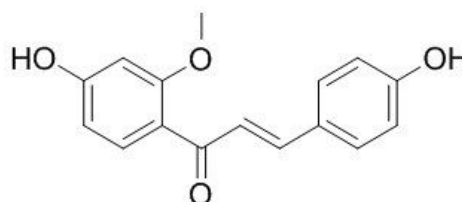
Purity: >=95%

M.F: C₁₆H₁₄O₄

M.W: 270.3

Physical Description: Powder

Synonyms: (2E)-1-(4-Hydroxy-2-methoxyphenyl)-3-(4-hydroxyphenyl)-2-propen-1-one;
2'-Methoxyisoliquiritigenin.



[Intended Use]

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

[Source]

The heartwood of *Caesalpinia sappan* Linn.

[Biological Activity or Inhibitors]

3-Deoxysappanchalcone inhibits tumor necrosis factor- α -induced matrix metalloproteinase-9 expression in human keratinocytes through activated protein-1 inhibition and nuclear factor-kappa B DNA binding activity. [1]

3-Deoxysappanchalcone has anti-influenza virus activity, the mechanism is involved anti-apoptosis and anti-inflammation activities in vitro, it could be a promising drug candidate for influenza treatment.[2]

3-Deoxysappanchalcone may be an effective HO-1 inducer at the translational level that has anti-inflammatory effects, and a valuable compound for modulating inflammatory conditions. [3]

3-Deoxysappanchalcone has potent effect against allergic reaction in RBL-2H3 cells with an inhibitory concentration (IC50) value of 15.3 microM.[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: 0.02 M KH₂PO₄-1% Methanol; gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Youn U J, Nam K W, Kim H S, *et al. Biol.Pharm. Bull.*, 2011, 34(6):890-3.

[2] Yang F, Zhou W L, Liu A L, *et al. Planta Med.*, 2012, 78(10):968-73.

[3] Kim J H, Choo Y Y, Tae N, *et al. Int. Immunopharmacol.*, 2014, 22(2):420-6.

[4] Yodsaoue O, Cheenpracha S, Karalai C, *et al. Phytother. Res.*, 2009, 23(7):1028-31.

[5] Sun Y L, Zhao H X, Bai H. *Chinese Journal of Pharmaceutical Analysis*, 2014 (8): 1391-13.

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