Natural Products

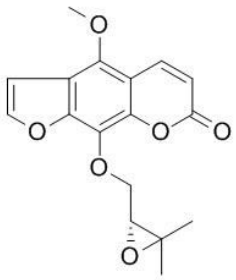
ChemFaces

Byakangelicol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Byakangelicol



Catalog No.: CFN98167

Cas No.: 26091-79-2

Purity: >=98%

M.F: $C_{17}H_{16}O_6$

M.W: 316.31

Physical Description: White cryst.

Synonyms:9-[[(R)-3,3-Dimethyloxiranyl]methoxy]-4-methoxy-7H-furo[3,2-g][1]benzopyran-7-one.

[Intended Use]

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

[Source]

The roots of *Angelica dahurica.*

[Biological Activity or Inhibitors]

Byakangelicol inhibits IL-1beta-induced PGE2 release in A549 cells, this inhibition may be mediated by suppression of COX-2 expression and the activity of COX-2 enzyme, the inhibitory mechanism of byakangelicol on IL-1beta-induced COX-2 expression may be, at least in part, through suppression of NF-kappaB activity; therefore, byakangelicol may have therapeutic potential as an anti-inflammatory drug on airway inflammation.[1]

(+/-)-Byakangelicol exhibits hepatoprotective activities on tacrine-induced cytotoxicity in Hep G2 cells, with EC(50) values of 112.7 +/- 5.35 microM.[2]

Byakangelicol exhibits a significant inhibition on the proliferation of cultured human tumor cells such as A549 (non small cell lung), SK-OV-3 (ovary), SK-MEL-2 (melanoma), XF498 (central nervous system) and HCT-15 (colon) in a dose-dependent manner. [3]

[Solvent]

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

[HPLC Method][4]

Mobile phase: Methanol- H2O-Tetrahydrofuran,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 320 nm.

[Storage]

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

[References]

[1] Lin C H, Chang C W, Wang C C, *et al. J. Pharm. Pharmacol., 2002, 54(9):1271-8.*

[2] Oh H, Lee H S, Kim T, *et al. Planta Med., 2002, 68(5):463-4.*

[3] Kim Y K, Kim Y S, Ryu S Y. *Phytother. Res. Ptr, 2007, 21(3):288-90.*

[4] Lu X L, Ma Y Y , Zheng G Y, *et al. West China Journal of Pharmaceutical Sciences,*

2013, 28(4):398-400.

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