

Byakangelicin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Byakangelicin

Catalog No.: CFN98152

Cas No.: 19573-01-4

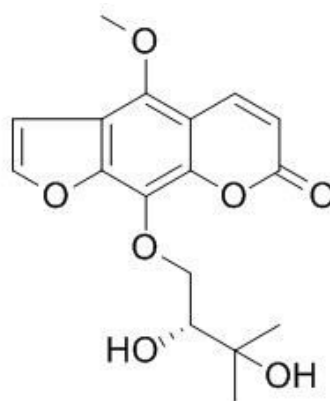
Purity: > 98%

M.F: C₁₇H₁₈O₇

M.W: 334.32

Physical Description: White cryst.

Synonyms: 9-(2,3-Dihydroxy-3-methylbutoxy)-4-methoxy-7-furo[3,2-g][1]benzopyranone.



[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]

Byakangelicin is found in extracts of the root of *Angelica dahurica*, used in Korea and China as a traditional medicine to treat colds, headache and toothache, it can inhibit the effects of sex hormones, it may increase the catabolism of endogenous hormones, it induces cytochrome P450 3A4 expression via transactivation of pregnane X receptors in human hepatocytes.^[1]

Byakangelicin, a main furanocoumarin constituent isolated and characterized as an aldose reductase inhibitor from the roots of *Angelica dahurica*, it is effective for the treatment of sugar cataracts and diabetic neuropathy in rats and hence might be useful as a lead compound for the development of new type drugs for clinical use.^[2]

Byakangelicin can cause irregularity of estrous cycle delay in mating and a marked decrease in fertile mating and in number of offspring, it might delay the sexual maturity of rats.^[3]

Byakangelicin as insecticides and insect antifeedant for the control of Lepidoptera and Homoptera showed a significant effect.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile : H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 254 nm.

[Storage]

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

[References]

- [1] Yang J, Luan X, Gui H, *et al. Brit. J. Pharmacol.*, 2011, 162(2):441-51.
- [2] Legge S S, Hardin A M. *Phytomedicine*, 1998, 5(2):121-7.
- [3] Pakrashi A. *Indian J. Exp. Biology*, 1969, 5(2):75-9.
- [4] Song P P, Lu Y, Wang N H. *CN, CN 103109822 A [P]* 2013.
- [5] Shi Y, Lei Y, Xu H Y, *et al. Traditional Chinese Medicine*, 2015,40 (05), 915-9.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com