

Columbianetin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Columbianetin

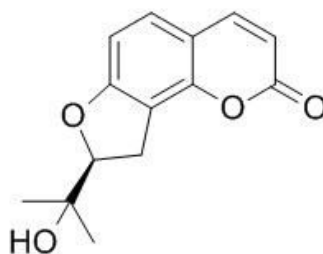
Catalog No.: CFN90185

Cas No.: 3804-70-4

Purity: >=98%

M.F: C₁₄H₁₄O₄

M.W: 246.26



Physical Description: White powder

Synonyms: (+)-Dihydrooroselol;

2H-Furo(2,3-h)-1-benzopyran-2-one, 8,9-dihydro-8-(1-hydroxy-1-methylethyl)-, (S)-;

(8S)-8,9-Dihydro-8-(1-hydroxy-1-Methylethyl)-2H-furo[2,3-h]-1-benzopyran-2-one.

[Intended Use]

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

[Source]

The roots of *Angelica pubescens*.

[Biological Activity or Inhibitors]

Columbianetin is a new phytoalexin associated with celery (*Apium graveolens*) resistance to pathogens during storage, it also has antifungal activity.^[1]

Columbianetin can inhibit expression of COX-2, it also can inhibit the histamine release by substance P, indicates that Columbianetin may be helpful in regulating mast cell-mediated allergic inflammatory responses.^[2]

(2'S)-columbianetin can be effectively used to protect keratinocytes from UVB induced damage. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Methanol -Acetonitrile- 0.025 M Phosphoric acid =32:20:48 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 320 nm.

[Storage]

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

[References]

[1] Afek U, Carmeli S, Aharoni N. *Phytochemistry*, 1995, 39(6):1347-50.

[2] Jeong H J, Na H J, Kim S J, *et al. Biol. Pharm. Bull.*, 2009, 32(6):1027-31.

[3] Ahn B N, Kim J A, Kong C S, *et al. J. Photoch. Photobio. B.*, 2012, 109:20-27.

[4] Cai Q, Sha M, Yang S. *Zhongguo Zhong Yao Za Zhi*. 1999, 24(9):552-4, 575.

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