Columbianetin Datasheet

[ Product Information ]

Name: Columbianetin
Catalog No.: CFN90185
Cas No.: 3804-70-4
Purity: >=98%
M.F: C_{14}H_{14}O_{4}
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)yl-, (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]**

[ Contact ]

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