

Oxypeucedanin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Oxypeucedanin

Catalog No.: CFN90350

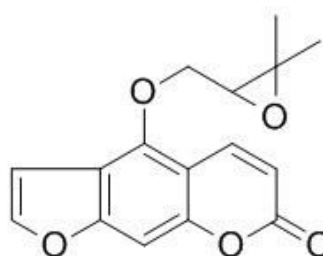
Cas No.: 737-52-0

Purity: > 98%

M.F: C₁₆H₁₄O₅

M.W: 286.28

Physical Description: White powder



Synonyms: 4-(3,3-Dimethylglycidyloxy)-7H-furo[3,2-g][1]benzopyran-7-one; 4-(3,3-Dimethyloxiran-2-ylmethoxy)-7H-furo[3,2-g][1]benzopyran-7-one; 4-[(3,3-Dimethyloxiranyl)methoxy]-7H-furo[3,2-g][1]benzopyran-7-one; Oxypencedanin; 4-[(3,3-dimethyloxiran-2-yl)methoxy]furo[3,2-g]chromen-7-one; Prangolarin.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Care and daily chemicals;
7. Intermediates & Fine Chemicals;
8. Ingredient in supplements, beverages;

9. Others.

[Source]

The root of *Angelica dahurica* (Fisch. ex Hoffm) Benth. et Hook.

[Biological Activity or Inhibitors]

Oxypeucedanin is a major coumarin aglycone that can be extracted from *Ostericum koreanum*, coumarin aglycones have demonstrated various pharmacological effects, including anti-proliferation, anti-inflammation, and anti-pain; based on transcriptional alteration and complicated modulation of MAPK signaling, might be underlying mechanisms responsible for the various pharmacological effects of oxypeucedanin.^[1]

Oxypeucedanin has a novel anticancer effect, mediated via induction of G2-M cell cycle arrest and apoptosis in human prostate carcinoma DU145 cells.^[2]

Oxypeucedanin is a kind of open-channel blocker of the hKv1.5 channel and it prolongs the APD, therefore, it is an excellent candidate as an antiarrhythmic drug for atrial fibrillation.^[3]

Oxypeucedanin and osthole have protective effects on doxorubicin -induced apoptosis in PC12 cells.^[4]

Oxypeucedanin has hypotensive effects , the effect is related to dilate blood vessels.^[5]

Oxypeucedanin has antidiarrheal and anti-inflammatory effects .^[6]

[Solvent]

Chloroform, Dichloromethane, DMSO, Acetone.

[HPLC Method]^[7]

Mobile phase: Acetonitrile- H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 254 nm.

[Storage]

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

[References]

- [1] Choi J S, Shin H Y, Kwon K S, *et al. Planta Med.*, 2011, 77(13):1512-8.
- [2] Kang T J, Lee S Y, Singh R P, *et al. Acta Oncologica*, 2009, 48(6):895-900.
- [3] Eun J S, Park J A, Choi B H, *et al. Biol. Pharm. Bull.*, 2005, 28(4):657-60.
- [4] Moieniarya M, Shookohinia Y, Hosseinzadeh L, *et al. Res. Pharm. Sci.*, 2012, 7(5).
- [5] Tang C. *Chinese Journal of Modern Applied Pharmacy*, 1994(01):14-6.
- [6] Zhang M, Shen Y. *Chinese Traditional & Herbal Drugs*, 1996(12):727-9.
- [7] Paramapojn S, Gritsanapan W, Ganzera M, *et al. Planta Med.*, 2008, 74(9):1089.

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