

Marmesin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Marmesin

Catalog No.: CFN92712

Cas No.: 13710-70-8

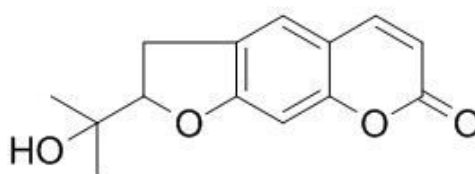
Purity: >98%

M.F: C₁₄H₁₄O₄

M.W: 246.3

Physical Description: Powder

Synonyms: 2,3-Dihydro-2-(1-hydroxy-1-methylethyl)-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. Agricultural research;
6. Others.

[Source]

The roots of *Notopterygium incisum*.

[Biological Activity or Inhibitors]

Marmesin, a new phytoalexin associated with resistance of parsley to pathogens after harvesting.^[1]

Marmesin and demethylsuberosin have significant behavioral (feeding deterrence) effects against both first and third instars of *S. exigua*.^[2]

Marmesin has much greater antifungal activity in vitro than psoralens.^[3]

Marmesin is a novel angiogenesis inhibitor, it has regulatory effect on endothelial cell fate and angiogenesis, and warrant further evaluation and development as a potential therapeutic agent for the treatment and prevention of angiogenesis-related diseases including cancer.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Methanol-H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Afek U, Orenstein J, Carmeli S, *et al. Postharvest Biol. Tec.*, 2002, 24(24):89-92.

[2] And J T T, Millar J G. *J. Agr. Food Chem.*, 1996, 44(9):2859-64.

[3] U. Afek, J. Orenstein, N. Aharoni. *Can.J. Plant Pathol.*, 2002, 24(1):61-4.

[4] Kim J H, Kim J K, Ahn E K, *et al. Cancer Lett.*, 2015, 369(2):323-30.

[5] Zhao B, Yang X B, Yang X W, *et al. Chinese Journal of Pharmaceutical Analysis*, 2013,

33(3):382-7.

[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