

Genkwanin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Genkwanin

Catalog No.: CFN98670

Cas No.: 437-64-9

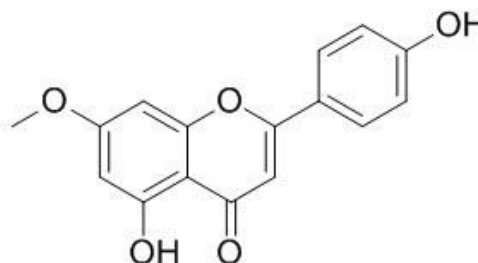
Purity: >=98%

M.F: C₁₆H₁₂O₅

M.W: 284.26

Physical Description: Yellow powder

Synonyms: 5,4'-Dihydroxy-7-methoxyflavone; 7-O-Methylapigenin; 7-Methoxyapigenin; Apigenin-7-methyl ether.



[Intended Use]

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

[Source]

The herbs of *Lobelia chinensis*.

[Biological Activity or Inhibitors]

Genkwanin is one of the major non-glycosylated flavonoids in many herbs with anti-inflammatory activities, it exerts its anti-inflammatory effect mainly through the regulation of the miR-101/MKP-1/MAPK pathway.^[1]

Genkwanin has antitumor activity partly via enhancing host immunity and decreasing the inflammatory cytokine levels, it may be an effective chemotherapeutic agent for the treatment of colorectal cancer.^[2]

Genkwanin can up-regulate the transcriptional activation of human type vii collagen gene promoter, stimulating the formation of anchoring fibrils at the basement membrane zone in skin contributed to preventing skin ageing, suggests that genkwanin may have anti-skin ageing activity. ^[3]

Genkwanin induces a decrease of melanin synthesis by inhibiting tyrosinase activity, it could as skin whitening agent in cosmetic preparations.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Methanol-H₂O-Acetic acid =65: 35: 5 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 332 nm.

[Storage]

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

[References]

[1] Gao Y, Liu F, Fang L, *et al. Plos One*, 2014, 9(5):e96741-e96741.

- [2] Wang X, Song Z J, He X, *et al. Int. Immunopharmacol.*, 2015, 29(2):701-7.
- [3] Takebayashi N, Ikeda M. *Int. J. Cosmetic Sci.*, 2007, 29(4):332- 3.
- [4] Bouzaïene N N, Chaabane F, Sassi A, *et al. Life Sci.*, 2016, 144:80-5.
- [5] Zhang B, Yuan S, Xia K. *China Journal of Chinese Materia Medica*, 1996,21(4):237, 253, 256.

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