

6,8-Diprenylgenistein Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 6,8-Diprenylgenistein

Catalog No.: CFN97935

Cas No.: 51225-28-6

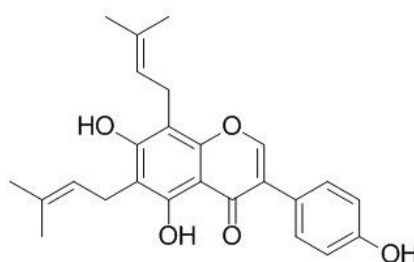
Purity: >=95%

M.F: C₂₅H₂₆O₅

M.W: 406.5

Physical Description: Yellow powder

Synonyms: 5,7-Dihydroxy-3-(4-hydroxyphenyl)-6,8-bis(3-Methylbut-2-en-1-yl)-4H-chromen-4-one.



[Intended Use]

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

[Source]

The roots of *Lupinus mutabilis*.

[Biological Activity or Inhibitors]

6,8-Diprenylgenistein, an isoflavonoid of *Cudrania tricuspidata* Fruits, has anti-obesity effect in high-fat diet-induced obese mice.^[1]

6,8-Diprenylgenistein has bactericidal effects on *S. mutans UA159*, it can be useful in developing oral hygiene products, such as gargling solutions and dentifrices for preventing dental caries.^[2]

6,8-Diprenylgenistein can promote osteoblastic cell growth enhance its ability to increase osteoblastic cell number. ^[3]

6,8-Diprenylgenistein shows an inhibitory effect on lysoPAF (platelet-activating factor) acetyltransferase in vitro, with IC₅₀ value is 19 microM.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile-H₂O, gradient elution ;

Flow rate: 2.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Jo Y H, Choi K M, Liu Q, *et al. Nutrients*, 2015, 7(12):10480-90.

[2] Ahn S J, Park S N, Lee Y J, *et al. Caries Res.*, 2015, 49(1):78-89.

[3] Zhang Y, Li X L, Yao X S, *et al. Arch. Pharm.Res.*, 2008, 31(12):1534-9.

[4] Nagumo S, Fukuju A, Takayama M, *et al. Biol. Pharm.Bull.*, 1999, 22(10):1144-6.

[5] Lee M S, Kim C H, Hoang D M, *et al. Biol. Pharm. Bull.*, 2009, 32(3):504-8.

[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