

6,8-Diprenylorobol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 6,8-Diprenylorobol

Catalog No.: CFN97705

Cas No.: 66777-70-6

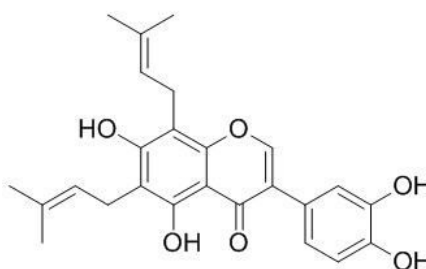
Purity: > 95%

M.F: C₂₅H₂₆O₆

M.W: 422.48

Physical Description: Yellow powder

Synonyms: 4H-1-Benzopyran-4-one, 3-(3,4-dihydroxyphenyl)-5,7-dihydroxy-6,8-bis(3-methyl-2-butenyl)-.



[Intended Use]

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

[Source]

The roots of *Glycyrrhiza uralensis* Fisch.

[Biological Activity or Inhibitors]

6,8-Diprenylorobol can protect against 6-OHDA-induced neurotoxicity by enhancing the ubiquitin/proteasome-dependent degradation of α -synuclein and synphilin-1, suggesting that it may be a possible candidate for the treatment of neurodegenerative diseases.^[1]

6,8-Diprenylorobol possesses weaker anti-H. pylori activity, it may be a useful chemopreventive agent for peptic ulcer or gastric cancer in H. pylori-infected individuals.^[2]

6,8-Diprenylorobol shows anti-estrogenic activity comparable to that of 4-hydroxytamoxifen, a typical estrogen receptor (ER) antagonist. ^[3]

6,8-Diprenylorobol shows promising cytotoxic effects toward HL-60 cells (IC_{50} 4.3 ± 0.7 to 18.0 ± 1.7 μ M).^[4]

6,8-Diprenylorobol has antioxidant activity, it can reduce A2E photooxidation in a dose dependent manner.^[5]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: 0.1% Formic acid in water- Acetonitrile, gradient elution ;

Flow rate: 0.3 ml/min;

Column temperature: 30 °C;

The wave length of determination: 272 nm.

[Storage]

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

[References]

[1] Kim D W, Kwon J, Su J S, *et al. J. Funct. Foods*, 2017, 29:104-14.

- [2] Fukai T, Marumo A, Kaitou K, *et al. Life Sci.*, 2002, 71(12):1449-63.
- [3] Okamoto Y, Suzuki A, Ueda K, *et al. J. Health Sci.*, 2006, 52(2):186-91.
- [4] Anh H L T, Tuan D T, Trang D T, *et al. J. Asian Nat. Prod. Res.*, 2016, 21:1-9
- [5] Uddin G M, Lee H J, Jeon J S, *et al. Nat. Prod. Sci.*, 2011(17):206-11.

[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