

Glabranin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Glabranin

Catalog No.: CFN98659

Cas No.: 41983-91-9

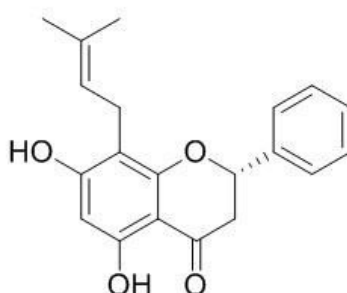
Purity: > 95%

M.F: C₂₀H₂₀O₄

M.W: 324.37

Physical Description: Powder

Synonyms: 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-8-(3-methyl-2-butenyl)-2-phenyl-, (2S)-.



[Intended Use]

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

[Source]

The roots of *Glycyrrhiza uralensis* Fisch.

[Biological Activity or Inhibitors]

Glabranine and 7-O-methyl-glabranine isolated from *Tephrosia s.p.* exert a dose-dependent inhibitory effect in vitro on the dengue virus, they present 70% inhibition on the dengue virus at a concentration of 25 microM.^[1]

Glabranin has antimicrobial activity.^[2]

Glabranin, umbelliferone, and scopoletin show significant activities on DPPH free radical with the IC₅₀ of 240.20, 810.02 and 413.19 ug ml⁻¹, respectively.^[3]

Glabranin or a derivative thereof could be used to stimulate hair growth.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acemic acid-H₂O- Acetonitrile=1:44:55 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 282 nm.

[Storage]

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

[References]

[1] Sánchez I, Gómez-Garibay F, Taboada J, *et al. Phytother. Res.*, 2000, 14(2):89-92.

[2] Mitscher L A, Rao G S R, Khanna I, *et al. Phytochemistry*, 1983, 22(2):573-6.

[3] Kassim N K, Rahmani M, Ismail A, *et al. Food Chem.* 2013, 139(1–4):87-92.

[4] Bhogal R K, Rogers J S. *EP, WO/2012/004228[P]*. 2012.

[5] Min J, Ablisea M, Meng L, *et al. Chinese Journal of Modern Applied Pharmacy*, 2010, 27(7):637-40.

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