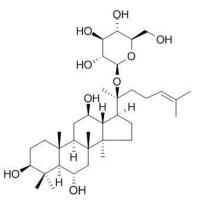


Ginsenoside F1 Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Ginsenoside F1 Catalog No.: CFN99754 Cas No.: 53963-43-2 Purity: > 98% M.F: C₃₆H₆₂O₉ M.W: 638.88 Physical Description: White powder



Synonyms:

(2R,3S,4R,5R,6S)-2-(hydroxymethyl)-6-[(2R)-6-methyl-2-[(6R,10R,12S,13R,14R,17S)-3, 6,12-trihydroxy-4,4,10,14,17-pentamethyl-2,3,5,6,7,8,9,11,12,13,15,16-dodecahydro-1Hcyclopenta[a]phenanthren-17-yl]hept-5-en-2-yl]oxyoxane-3,4,5-triol

[Intended Use]

- 1. Reference standards;
- 2. Pharmacological research;
- 3. Food research;
- 4. Cosmetic research;
- 5. Synthetic precursor compounds;
- 6. Care and daily chemicals;
- 7. Intermediates & Fine Chemicals;
- 8. Ingredient in supplements, beverages;

9. Others.

[Source]

The roots of Panax ginseng C.A.Mey.

[Biological Activity or Inhibitors]

Ginsenoside (G)-F1 is an enzymatic metabolite generated from G-Rg1, it has been reported to suppress platelet aggregation and to reduce gap junction-mediated intercellular communication, also as a novel anti-skin cancer drug with anti-proliferative and anti-migration features.^[1]

Ginsenoside F1 significantly reduces ultraviolet-B-induced cell death by maintaining constant levels of Bcl-2 and protects HaCaT cells from apoptosis caused by ultraviolet B irradiation. ^[2]

Ginsenoside F1(GF1) has beneficial effects on skin, it reduces α-melanocyte-stimulating hormone-induced melanin secretion in B16F10 cell culture media by 60%, but does not suppress intracellular melanin levels, tyrosinase activity and expression; it primarily modulates the Rho family GTPases resulting in dendrite retraction, suggests that GF1 could act as a potent skin-whitening agent.^[3]

Ginsenoside F1 has inhibitory effect of elastase and tyrosinase, indicates that ginsenoside F1 have a potential for industrial cosmetic materials.^[4]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method]^[5]

Mobile phase: Acetonitrie -H2O, gradient elution ; Flow rate: 1.0 ml/min; Column temperature: 35 °C; The wave length of determination: 203 nm.

[Storage]

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

[References]

[1] Yoo D S, Rho H S, Yong G L, et al. J. Ginseng Res., 2011, 35(1):86-91.

[2] Lee E H, Cho S Y, Kim SJShin E S, et al.J. Invest. Dermatol., 2003, 121(3):607-13.

[3] Ji H K, Baek E J, Lee E J, et al. Exp. Dermatol., 2014, 24(2):150-2.

[4] Hong, S.C., Korean J. Pharm., 2013, 44(1):10-5.

[5] Chong G, Gao Y G, Pu Z, et al. Chinese Trad. Herbal Drugs, 2014, 45(14):2009-13.

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