

Ginsenoside F4 Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Ginsenoside F4

Catalog No.: CFN90757

Cas No.: 181225-33-2

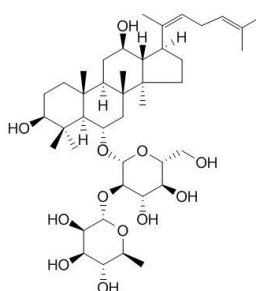
Purity: >=98%

M.F: C₄₂H₇₀O₁₂

M.W: 767.0

Physical Description: Powder

Synonyms: (20E)-Ginsenoside F4.



[Intended Use]

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

[Source]

The roots of *Panax ginseng* C. A. Mey.

[Biological Activity or Inhibitors]

Ginsenoside F4 (GF4) has inhibitory effect on human lymphocytoma JK cell by inducing

its apoptosis, the mechanism of action could be related to the mitochondrial dysfunction and the increase of Bax expression and decrease of Bcl-2 expression by GF4.^[1]

Ginsenoside F4 and Rg3 can block cartilage breakdown in cartilage tissue culture, suggests that they have therapeutic potential for preventing cartilage matrix breakdown in diseased tissues such as those found in patients with arthritic disorders.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: Methanol -H₂O=50:50 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 203 nm.

[Storage]

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

[References]

[1] Chen B, Shen Y P, Zhang D F, *et al. Nat. Prod. Res.*, 2013, 27(24):2351-4.

[2] Lee J H, Lim H, Shehzad O, *et al. Eur. J. Pharmacol.* 2014, 724(1):145-51.

[3] Cheng YJ, Zhang M, Liang Q L, *et al. Sep. Purif. Technol.*, 2011, 77(3):347-54.

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