

Ginsenoside Rg6 Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Ginsenoside Rg6

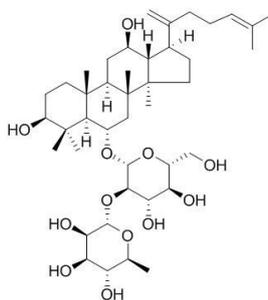
Catalog No.: CFN90565

Cas No.: 147419-93-0

Purity: >=98%

M.F: C₄₂H₇₀O₁₂

M.W: 766.5



Physical Description: Powder

Synonyms: (3 β ,6 α ,12 β)-3,12-Dihydroxydammara-20,24-dien-6-yl-2-O-(6-deoxy- α -L-mannopyranosyl)- β -D-glucopyranoside.

[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 *Panax ginseng* C. A. Mey.

[Biological Activity or Inhibitors]

Ginsenoside Rg6 (GRg6) from steamed notoginseng can inhibit JK cell proliferation in human lymphocytoma and induce its apoptosis, the mechanism of action may be related to mitochondrial dysfunction and an increase of Bax expression and decrease of Bcl-2 expression caused by GRg6.^[1]

Ginsenoside Rg6 shows obvious effect on inhibition of microtubule organizing center (MTOC) amplification, γ -tubulin induction and Taxol resistance; comparing to Fulvestant (FST), ER- α specific inhibitor, this chemical can block the cortisol/cortisone-induced MTOC deregulation as well as ER- α signaling; suggest that stress hormone induced tumorigenesis would be achieved by MTOC amplification, and GRg6 would be useful for prevention of stress-hormone or steroid hormone-induced chromosomal instability.^[2]

Ginsenosides Rk3, F4, Rg6, and Rh4 from red ginseng have an antiwrinkle activity through inhibition of MMP-2, and -9 expression in skin. ^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[4]

Mobile phase: 5 mM Ammonium acetate aqueous- H₂O- Acetonitrile, gradient elution ;

Flow rate: 1.5 ml/min;

Column temperature: 30 °C;

The wave length of determination: 203 nm.

[Storage]

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

[References]

[1] Chen B, Jia X B. *Molecules*, 2013, 18(7):8109-19.

[2] Cho J H, Chun H Y, Lee J S, *et al.* *Oncotarget*, 2016, 7(23):35144-58.

[3] Lee Sang Myung, Young Ho Im, Seok Chang Kim, *et al.* *대한피부미용학회지*, 2013, 11(5):877-82.

[4] Qian Z M, Wan J B, Zhang Q W, *et al.* *J. Pharm. Biomed. Anal.*, 2008, 48(5):1361-7.

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