[ Product Information ]

Name: Ginsenoside Rf

Catalog No.: CFN99976

Cas No.: 52286-58-5

Purity: > 98%

M.F: C_{42}H_{72}O_{14}

M.W: 801.01

Physical Description: White powder


[ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Others.
The roots of *Panax ginseng* C. A. Mey.

**[Biological Activity or Inhibitors]**

Ginsenoside Rf, as an effective natural product, induces G2/M phase cell cycle arrest and apoptosis in human osteosarcoma MG-63 cells through the mitochondrial pathway, suggests that it may have a therapeutic effect on human osteosarcoma.\(^1\)

Ginsenoside Rf(Rf), a trace component of ginseng root, produces antinociception in mice; Ginsenoside Rf potentiates U-50,488H-induced analgesia and inhibits tolerance to its analgesia in mice.\(^2,3\)

Ginsenoside Rf regulates voltage-dependent Ca(2+) channels through pertussis toxin (PTX)-sensitive G proteins in rat sensory neurons, suggests that Rf can act through a novel G protein-linked receptor in the nervous system.\(^4\)

Ginsenoside Rf induces CYP3A4 and MDR1 gene expression through constitutive androstan receptor- and pregnane X receptor-mediated pathways.\(^5\)

Ginsenoside Rf significantly reduces the production of IL-1\(\beta\), IL-6, TNF-\(\alpha\), NO, and ROS, which are most highly activated in inflammatory bowel disease (IBD), and suppresses TNF-\(\alpha\)/LPS-induced NF-\(\kappa\)B transcriptional activity; suggests that ginsenoside Rf has potent intestinal anti-inflammatory effects that could be used to treat diseases such as IBD.\(^6\)

**[Solvent]**

Pyridine, Methanol, Ethanol, Hot water, etc.

**[HPLC Method]**\(^7\)

Mobile phase: Acetonitrile -H2O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 35 ℃;
The wavelength of determination: 203 nm.

[ Storage ]

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

[ References ]


[ 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