



Product Information

Product ID G3553

CAS No. 11021-13-9

Chemical Name

Synonym Ginsenoside C

Formula $C_{53}H_{90}O_{22}$

Formula Wt. 1079.27

Melting Point 197-199°C

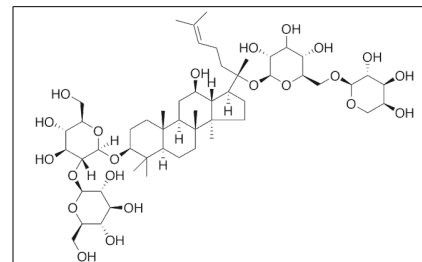
Purity $\geq 98\%$

Solubility Soluble in water.

Store Temp 4°C

Ship Temp Ambient

Description Ginsenoside Rb2 is a triterpene saponin originally found in species of *Panax* (ginseng) that exhibits anti-osteoporotic, antioxidative, antiviral, anti-hyperlipidemic, anti-metastatic, anti-angiogenic, and anticancer chemotherapeutic activities. In vivo, ginsenoside Rb2 decreases levels of malondialdehyde and increases levels of glutathione, improving bone microarchitecture and bone mineral density. In other animal models, this compound decreases virus titers and protects against infection of hemagglutinating virus of Japan. In adipocytes, ginsenoside Rb2 decreases levels of cholesterol and triglycerides and increases expression of SREBP. In uterine endometrial cancer cells, ginsenoside Rb2 decrease expression of matrix metalloproteinase 2 (MMP2), suppressive cellular invasion; this compound also inhibits neovascularization and tumor growth in animal models of melanoma.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
G3553	1 mg	\$118.40
G3553	5 mg	\$408.30
G3553	10 mg	\$612.70
G3553	25 mg	\$1225.20

References Huang Q, Gao B, Jie Q, et al. Ginsenoside-Rb2 displays anti-osteoporosis effects through reducing oxidative damage and bone-resorbing cytokines during osteogenesis. *Bone*. 2014 Jun 13. [Epub ahead of print]. PMID: 24933344.

Yoo YC, Lee J, Park SR, et al. Protective effect of ginsenoside-Rb2 from Korean red ginseng on the lethal infection of haemagglutinating virus of Japan in mice. *J Ginseng Res*. 2013 Mar;37(1):80-6. PMID: 23717160.

Kim EJ, Lee HI, Chung KJ, et al. The ginsenoside-Rb2 lowers cholesterol and triacylglycerol levels in 3T3-L1 adipocytes cultured under high cholesterol or fatty acids conditions. *BMB Rep*. 2009 Apr 30;42(4):194-9. PMID: 19403041.

Fujimoto J, Sakaguchi H, Aoki I, et al. Inhibitory effect of ginsenoside-Rb2 on invasiveness of uterine endometrial cancer cells to the basement membrane. *Eur J Gynaecol Oncol*. 2001;22(5):339-41. PMID: 11766734.

Sato K, Mochizuki M, Saiki I, et al. Inhibition of tumor angiogenesis and metastasis by a saponin of *Panax ginseng*, ginsenoside-Rb2. *Biol Pharm Bull*. 1994 May;17(5):635-9. PMID: 7522731.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.