



Product Information

Product ID G3461

CAS No. 62025-49-4

Chemical Name

Synonym

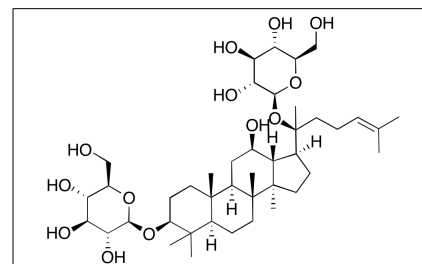
Formula C₄₂H₇₂O₁₃

Formula Wt. 785.03

Melting Point

Purity ≥98%

Solubility



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
G3461	1 mg	\$152.70
G3461	5 mg	\$382.10
G3461	10 mg	\$668.60

Store Temp 4°C

Ship Temp Ambient

Description Ginsenoside F2 is a triterpene saponin originally found in species of *Panax* that exhibits anti-obesity and anticancer chemotherapeutic activities. Ginsenoside F2 inhibits hair cell apoptosis, decreasing expression of TGF-β2, SCAP, and SREBP in vivo. Ginsenoside F2 also decreases lipid accumulation in adipocytes, suppressing expression of PPARγ and perilipin and inhibiting adipogenesis. This compound also induces formation of acidic vesicles, autophagy, and mitochondrial apoptosis in breast cancer stem cells; additionally, it decreases tumor growth in animal models of glioblastoma.

References Shin HS, Park SY, Hwang ES, et al. Ginsenoside F2 reduces hair loss by controlling apoptosis through the sterol regulatory element-binding protein cleavage activating protein and transforming growth factor-β pathways in a dihydrotestosterone-induced mouse model. *Biol Pharm Bull.* 2014;37(5):755-63. PMID: 24789999.

Siraj FM, Sathishkumar N, Kim YJ, et al. Ginsenoside F2 possesses anti-obesity activity via binding with PPARγ and inhibiting adipocyte differentiation in the 3T3-L1 cell line. *J Enzyme Inhib Med Chem.* 2014 Mar 25. [Epub ahead of print]. PMID: 24666293.

Mai TT, Moon J, Song Y, et al. Ginsenoside F2 induces apoptosis accompanied by protective autophagy in breast cancer stem cells. *Cancer Lett.* 2012 Aug 28;321(2):144-53. PMID: 22326284.

Quan LH, Piao JY, Min JW, et al. Biotransformation of Ginsenoside Rb1 to Prosapogenins, Gypenoside XVII, Ginsenoside Rd, Ginsenoside F2, and Compound K by *Leuconostoc mesenteroides* DC102. *J Ginseng Res.* 2011 Sep;35(3):344-51. PMID: 23717079.

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