



LKT Laboratories, Inc.

Ginsenoside F₂

Phone: 888-558-5227

651-644-8424

Fax: 888-558-7329

Email: getinfo@lktlabs.com

Web: lktlabs.com

Product Information

Product ID G3461

CAS No. 62025-49-4

Chemical Name

Synonym

Formula C₄₂H₇₂O₁₃

Formula Wt. 785.03

Melting Point

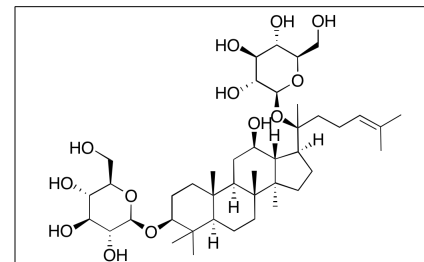
Purity ≥98%

Solubility

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 expressing 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.



Bulk quantities available upon request

Product ID	Size
G3461	1 mg
G3461	5 mg
G3461	10 mg

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.