



Product Information

Product ID G3457

CAS No. 52286-59-6

Chemical Name

Synonym Panaxoside RE, Ginsenoside B2

Formula $C_{49}H_{84}O_{17}$

Formula Wt. 947.18

Melting Point

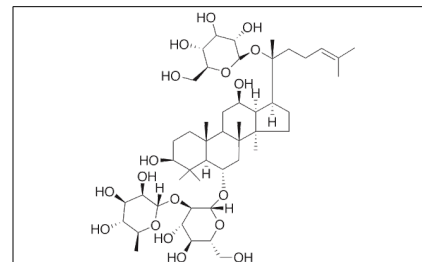
Purity $\geq 98\%$

Solubility Soluble in ethanol (5 mg/ml), DMSO (15 mg/ml), and DMF (20 mg/ml). Insoluble in water.

Store Temp 4°C

Ship Temp Ambient

Description Ginsenoside Re is a triterpene saponin originally found in species of *Panax* that exhibits antioxidative, anti-ulcerative, anti-inflammatory, neuroprotective, anxiolytic, antidepressant, anti-diabetic, anti-allergic, cardioprotective, and immunostimulatory activities. Ginsenoside Re inhibits formation of gastric mucosal lesions in vivo by increasing mucosal secretion, decreasing neutrophil infiltration, and suppressing myeloperoxidase and xanthine oxidase activity. In animal models of immunization, ginsenoside Re acts as an adjuvant, increasing the CD4⁺:CD8⁺ cell ratio, increasing antibody titers, and increasing levels of IL-4, IL-10, IL-12, and IFN- γ . Ginsenoside Re improves heart rate, perfusion pressure, blood flow, and cardiac output in animal models of myocardial ischemia/reperfusion. Additionally, ginsenoside Re inhibits histamine release in mast cells and decreases LPS-stimulated production of COX-2 and iNOS in microglia. In adipocytes, this compound activates PPAR γ signaling, induces adipogenesis, and increases glucose uptake. In vivo, ginsenoside Re inhibits stress-induced anxiety, depression, and cognitive deficits.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
G3457	1 mg	\$152.70
G3457	5 mg	\$382.10
G3457	10 mg	\$668.60

References Su X, Pei Z, Hu S. Ginsenoside Re as an adjuvant to enhance the immune response to the inactivated rabies virus vaccine in mice. *Int Immunopharmacol*. 2014 Jun;20(2):283-9. PMID: 24680943.

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Lee KW, Jung SY, Choi SM, et al. Effects of ginsenoside Re on LPS-induced inflammatory mediators in BV2 microglial cells. *BMC Complement Altern Med*. 2012 Oct 26;12:196. PMID: 23102375.

Lee B, Shim I, Lee H, et al. Effect of ginsenoside Re on depression- and anxiety-like behaviors and cognition memory deficit induced by repeated immobilization in rats. *J Microbiol Biotechnol*. 2012 May;22(5):708-20. PMID: 22561867.

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