



Product Information

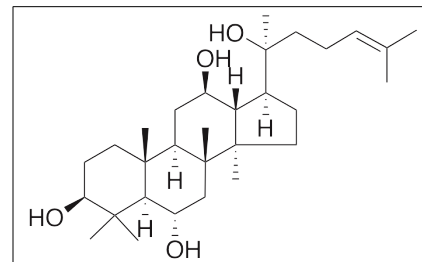
Product ID P6958
CAS No. 34080-08-5
Chemical Name

Synonym

Formula $C_{30}H_{52}O_4$
Formula Wt. 476.73
Melting Point
Purity $\geq 95\%$
Solubility

Store Temp 4°C
Ship Temp Ambient

Description Protopanaxatriol is a triterpene saponin originally found in species of *Panax* (ginseng) that exhibits antihypertensive, neuromodulatory, and antioxidative activities. Protopanaxatriol prevents breakdown of vitamin D3 and inhibits GABA-A and GABA-C receptors as well as slow-activating delayed rectifier K⁺ channels. Protopanaxatriol also stimulates production of eNOS and NO, increasing vascular relaxation and decreasing blood pressure. In animal models of isoproterenol-induced myocardial injury, protopanaxatriol decreases levels of malondialdehyde and increases activity of superoxide dismutase and glutathione peroxidase.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
P6958	1 mg	\$95.00
P6958	5 mg	\$196.70
P6958	10 mg	\$330.40
P6958	25 mg	\$645.00

References Deb S, Chin MY, Adomat H, et al. Ginsenoside-mediated blockade of 1 α ,25-dihydroxyvitamin D3 inactivation in human liver and intestine in vitro. *J Steroid Biochem Mol Biol.* 2014 May;141:94-103. PMID: 24486455.

Lee BH, Hwang SH, Choi SH, et al. Inhibitory Effects of Ginsenoside Metabolites, Compound K and Protopanaxatriol, on GABAC Receptor-Mediated Ion Currents. *Korean J Physiol Pharmacol.* 2013 Apr;17(2):127-32. PMID: 23626474.

Hong SY, Kim JY, Ahn HY, et al. Panax ginseng extract rich in ginsenoside protopanaxatriol attenuates blood pressure elevation in spontaneously hypertensive rats by affecting the Akt-dependent phosphorylation of endothelial nitric oxide synthase. *J Agric Food Chem.* 2012 Mar 28;60(12):3086-91. PMID: 22380784.

Lee BH, Choi SH, Shin TJ, et al. Effects of Ginsenoside Metabolites on GABAA Receptor-Mediated Ion Currents. *J Ginseng Res.* 2012 Jan;36(1):55-60. PMID: 23717104

Han B, Meng Q, Li Q, et al. Effect of 20(S)-protopanaxatriol and its epimeric derivatives on myocardial injury induced by isoproterenol. *Arzneimittelforschung.* 2011;61(3):148-52. PMID: 21528638.

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