



LKT Laboratories, Inc.

Protopanaxatriol

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Product Information

Product ID P6958

CAS No. 34080-08-5

Chemical Name

Synonym

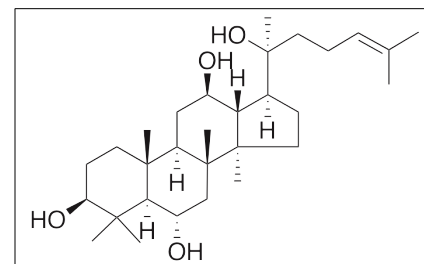
Formula $C_{30}H_{52}O_4$

Formula Wt. 476.73

Melting Point

Purity $\geq 95\%$

Solubility



Bulk quantities available upon request

| Product ID | Size |
|------------|------|
|------------|------|

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|-------|------|
| P6958 | 5 mg |
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| P6958 | 10 mg |
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|-------|-------|
| P6958 | 25 mg |
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Store Temp 4°C

Ship Temp Ambient

Description Protopanaxatriol is a triterpene sapogenin 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.

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.