

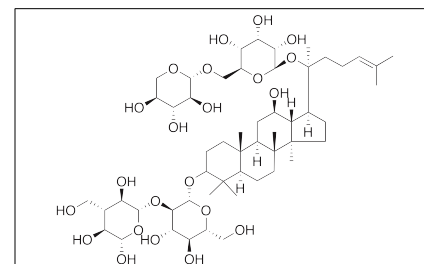


## Product Information

Product ID G3554  
CAS No. 68406-26-8  
Chemical Name

Synonym

Formula  $C_{53}H_{90}O_{22}$   
Formula Wt. 1079.27  
Melting Point  
Purity  $\geq 98\%$   
Solubility



**Bulk quantities available upon request**

Product ID	Size
G3554	5 mg
G3554	10 mg
G3554	25 mg

Store Temp 4° C  
Ship Temp Ambient

**Description** Ginsenoside Rb3 is a triterpene saponin originally found in species of *Panax* (ginseng) that exhibits cardioprotective, antioxidative, antidepressant, and anti-diabetic activities. Ginsenoside Rb3 inhibits contractions in aortic rings and suppresses expression of ROS, NOX-2, and NOX-4, decreasing oxidative stress and improving endothelial function. In diabetic mice, ginsenoside Rb3 decreases blood glucose levels and improves oral glucose tolerance. Ginsenoside Rb3 also decreases immobility time in the forced swim, tail suspension, and learned helplessness tests. Additionally, this compound decreases levels of malondialdehyde and increases activity of superoxide dismutase, decreasing infarct size in animal models of myocardial ischemia/reperfusion.

**References** Wang Y, Dong J, Liu P, et al. Ginsenoside Rb3 attenuates oxidative stress and preserves endothelial function in renal arteries from hypertensive rats. *Br J Pharmacol.* 2014 Jul;171(13):3171-81. PMID: 24571453.

Bu QT, Zhang WY, Chen QC, et al. Anti-diabetic effect of ginsenoside Rb(3) in alloxan-induced diabetic mice. *Med Chem.* 2012 Sep;8(5):934-41. PMID: 22741793.

Cui J, Jiang L, Xiang H. Ginsenoside Rb3 exerts antidepressant-like effects in several animal models. *J Psychopharmacol.* 2012 May;26(5):697-713. PMID: 21948936.

Shi Y, Han B, Yu X, et al. Ginsenoside Rb3 ameliorates myocardial ischemia-reperfusion injury in rats. *Pharm Biol.* 2011 Sep;49(9):900-6. PMID: 21591990.

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