



Product Information

Product ID G3455

CAS No. 11021-14-0

Chemical Name

Synonym Panaxoside RC

Formula $C_{53}H_{90}O_{22}$

Formula Wt. 1079.27

Melting Point

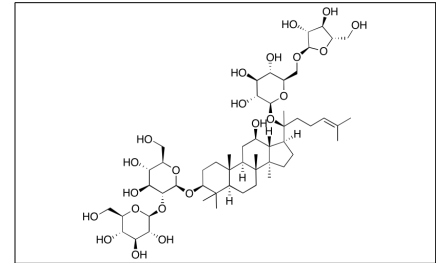
Purity $\geq 98\%$

Solubility

Store Temp 4° C

Ship Temp Ambient

Description Ginsenoside Rc is a triterpene saponin originally found in species of *Panax* that exhibits antioxidative, anti-aging, antinociceptive, and anti-diabetic activities. Ginsenoside Rc inhibits phosphorylation of Foxo1, inhibits AMPK, activates PI3K/Akt signaling, and increases levels of catalase, decreasing oxidative stress. Ginsenoside Rc also induces antinociception in animal models of writhing and formalin-induced pain, potentially through activity on transient receptor potential vanilloid 1 (TRPV1) channels. In other animal models, ginsenoside Rc activates AMPK and p38 MAPK, increasing glucose uptake. Additionally, this compound increases the life span of *Caenorhabditis elegans*.



Bulk quantities available upon request

Product ID	Size
G3455	1 mg
G3455	5 mg
G3455	10 mg

References Kim DH, Park CH, Park D, et al. Ginsenoside Rc modulates Akt/FoxO1 pathways and suppresses oxidative stress. Arch Pharm Res. 2014 Jun;37(6):813-20. PMID: 23918648.

Lee MS, Hwang JT, Kim SH, et al. Ginsenoside Rc, an active component of Panax ginseng, stimulates glucose uptake in C2C12 myotubes through an AMPK-dependent mechanism. J Ethnopharmacol. 2010 Feb 17;127(3):771-6. PMID: 19961916.

Lee JH, Choi SH, Kwon OS, et al. Effects of ginsenosides, active ingredients of Panax ginseng, on development, growth, and life span of *Caenorhabditis elegans*. Biol Pharm Bull. 2007 Nov;30(11):2126-34. PMID: 17978487.

Jung SY, Choi S, Ko YS, et al. Effects of ginsenosides on vanilloid receptor (VR1) channels expressed in *Xenopus* oocytes. Mol Cells. 2001 Dec 31;12(3):342-6. PMID: 11804333.

Shin YH, Jung OM, Nah JJ, et al. Ginsenosides that produce differential antinociception in mice. Gen Pharmacol. 1999 Jun;32(6):653-9. PMID: 10401990.

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