LKT Laboratories, Inc.

Ginsenoside Rc

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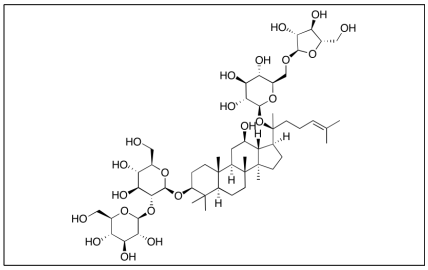
Product Information

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 ≥98%
Solubility



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
G3455	1 mg	$152.70
G3455	5 mg	$382.10
G3455	10 mg	$668.60

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*.

References

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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.

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