



Product Information

Product ID G3456

CAS No. 52705-93-8

Chemical Name

Synonym Gypenoside VIII

Formula $C_{48}H_{82}O_{18}$

Formula Wt. 947.16

Melting Point

Purity $\geq 98\%$

Solubility

Store Temp 4°C

Ship Temp Ambient

Description

Ginsenoside Rd is a triterpene saponin originally found in species of *Panax* that exhibits antioxidative, anti-inflammatory, neuroprotective, anticancer, anti-metastatic, cardioprotective, and immunomodulatory activities. Ginsenoside Rd regulates secretion of IFN γ and IL-4, shifts cytokine production toward Th2 phenotype, and increases expression of BDNF and NGF in animal models of experimental autoimmune encephalitis (EAE). In other animal models, ginsenoside Rd prevents paw edema by decreasing myeloperoxidase activity and malondialdehyde levels, increasing expression of superoxide dismutase, glutathione peroxidase, and catalase, and inhibiting expression of NO, PGE $_2$, iNOS, COX-2, and NF- κ B. Ginsenoside Rd decreases infarct size, cell apoptosis, and levels of creatine kinase and lactate dehydrogenase in animal models of myocardial ischemia/reperfusion. This compound also prevents phosphorylation of tau in animal models by decreasing amyloid- β (A β)-induced expression and activity of GSK-3 β and stimulating activity of protein phosphatase 2A (PP2A). In hepatocellular carcinoma cells, ginsenoside Rd inhibits invasion and migration by decreasing expression of matrix metalloproteinases 1, 2, and 7 (MMP1/2/7) and preventing activation of ERK, p38 MAPK, and AP-1. Additionally, ginsenoside Rd inhibits the 26S proteasome and transient receptor potential melastatin-like 7 (TRPM7) channels, inhibiting proliferation of breast cancer and gastric cancer cells.

References

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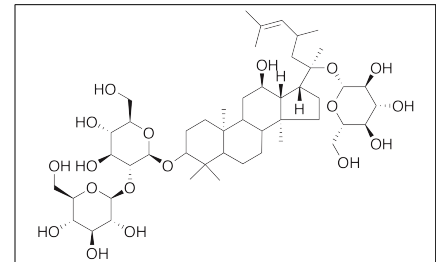
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Yoon JH, Choi YJ, Cha SW, et al. Anti-metastatic effects of ginsenoside Rd via inactivation of MAPK signaling and induction of focal adhesion formation. *Phytomedicine.* 2012 Feb 15;19(3-4):284-92. PMID: 21982435.

Chang TL, Ding HY, Kao YW. Role of ginsenoside Rd in inhibiting 26S proteasome activity. *J Agric Food Chem.* 2008 Dec 24;56(24):12011-5. PMID: 19053398.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
G3456	1 mg	\$52.50
G3456	5 mg	\$224.70
G3456	10 mg	\$329.50

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