

Product Information

Product ID G3459

CAS No. 52286-74-5

Chemical Name

Synonym

Formula C₄₂H₇₂O₁₃

Formula Wt. 785.01

Melting Point

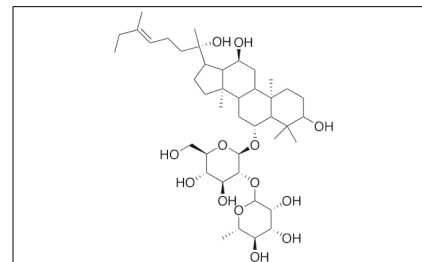
Purity ≥98%

Solubility

Store Temp 4° C

Ship Temp Ambient

Description Ginsenoside Rg₂ is a triterpene saponin originally found in species of *Panax* that exhibits anti-atherosclerotic, anti-diabetic, and neuroprotective activities. Ginsenoside Rg₂ inhibits LPS-stimulated production of VCAM-1 and ICAM-1, prevents degradation of IκBα, and suppresses leukocyte adhesion in models of atherosclerosis. Ginsenoside Rg₂ also decreases production of PEPCK and G6Pase and phosphorylates AMPK and GSK-3β, suppressing hepatic glucose production in vitro. Additionally, this compound decreases expression of Bcl-2 and HSP70 and increases expression of Bax and p53, improving neural performance and cognition in animal models of vascular dementia.



Bulk quantities available upon request

Product ID	Size
G3459	1 mg
G3459	5 mg
G3459	10 mg

References Cho YS, Kim CH, Ha TS, et al. Ginsenoside rg2 inhibits lipopolysaccharide-induced adhesion molecule expression in human umbilical vein endothelial cell. *Korean J Physiol Pharmacol.* 2013 Apr;17(2):133-7. PMID: 23626475.

Yuan HD, Kim do Y, Quan HY, et al. Ginsenoside Rg₂ induces orphan nuclear receptor SHP gene expression and inactivates GSK3β via AMP-activated protein kinase to inhibit hepatic glucose production in HepG2 cells. *Chem Biol Interact.* 2012 Jan 5;195(1):35-42. PMID: 22062806.

Zhang G, Liu A, Zhou Y, et al. *Panax ginseng* ginsenoside-Rg₂ protects memory impairment via anti-apoptosis in a rat model with vascular dementia. *J Ethnopharmacol.* 2008 Feb 12;115(3):441-8. PMID: 18083315.

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