



Product Information

Product ID N5778

CAS No. 80418-24-2

Chemical Name

Synonym

Formula $C_{47}H_{80}O_{18}$

Formula Wt. 933.13

Melting Point

Purity $\geq 98\%$

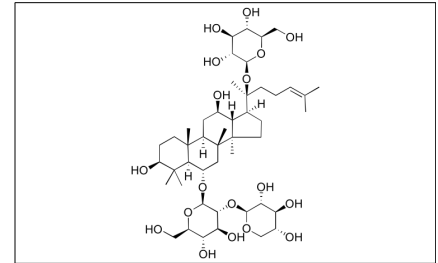
Solubility Soluble in DMSO.

Store Temp 4°C

Ship Temp Ambient

Description

Notoginsenoside R1 is a triterpene saponin originally found in species of *Panax* (ginseng) that exhibits neuroprotective, anti-atherosclerotic, anti-inflammatory, anti-hyperlipidemic, and immunostimulatory activities. Notoginsenoside R1 decreases amyloid- β -induced oxidative damage and MAPK signaling, improving cell viability in cellular models of Alzheimer's disease. In ApoE knockout animals, notoginsenoside R1 increases expression of glutathione and superoxide dismutase and decreases expression of inflammatory cytokines; it also decreases LDL, triglyceride, and cholesterol levels and increases HDL levels, preventing atherosclerotic lesions. This compound also increases antigen-induced splenocyte proliferation and IgG titers in vivo.



Bulk quantities available upon request

Product ID Size

N5778 5 mg

N5778 10 mg

N5778 25 mg

References

Ma B, Meng X, Wang J, et al. Notoginsenoside R1 attenuates amyloid- β -induced damage in neurons by inhibiting reactive oxygen species and modulating MAPK activation. *Int Immunopharmacol*. 2014 Jun 24;22(1):151-159. PMID: 24975829.

Jia C, Xiong M, Wang P, et al. Notoginsenoside R1 Attenuates Atherosclerotic Lesions in ApoE Deficient Mouse Model. *PLoS One*. 2014 Jun 16;9(6):e99849. PMID: 24933211.

Sun HX, Chen Y, Ye Y. Ginsenoside Re and notoginsenoside R1: Immunologic adjuvants with low haemolytic effect. *Chem Biodivers*. 2006 Jul;3(7):718-26. PMID: 17193304.

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