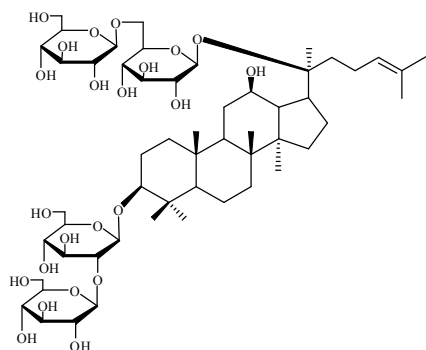


Ginsenoside-Rb₁ from *Panax ginseng* C.A.Mey.



Product Name: 3-O-[β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl]-20-O-[β -D-xylopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl]-dammar-24-ene-3 β ,12 β ,20S-triol

Product Number: G016001

CAS Number: 41753-43-9

Formula (Hill method): C₅₄H₉₂O₂₃

Formula Weight: 1109.29 AMU

Purity(HPLC): $\geq 98.00\%$

Stock Status: In Stock

Solubility: Soluble in water (partly), methanol (9.8-10.2 mg/ml), and ethanol.

Mechanisms: Pathways: Others; Target: Others

Biological Activity: Ginsenoside Rb₁ is part of a class of steroid glycosides; may have properties that inhibit or prevent the growth of tumors.

IC50 Value & Target:

In Vitro: Rb₁ inhibited melanogenesis in α -melanocyte-stimulating hormone (α -MSH)-stimulated B16 cells in a dose-dependent manner, which collectively indicated that Rb₁ may have skin-whitening effects and may be formulated into skin-whitening products for skin care [1].

In Vivo: Application of 0.56mg of ginsenoside Rb₁ resulted in significant decrement of scar elevation index, in comparison with control and lower dosage groups, furthermore achieved broader and randomly arranged collagen fibers resembling findings in normal dermis. Ginsenoside Rb₁ concentration inversely correlated with the mRNA expression and immunohistochemical reactivity of scar related factors; MMP2, TIMP1, α -SMA, and TGF- β 1 [2]. Ginsenoside Rb₁ treatment...

References:

- [1]. Wang L, et al. The melanogenesis-inhibitory effect and the percutaneous formulation of ginsenoside Rb₁. AAPS PharmSciTech. 2014 Oct;15(5):1252-62.
- [2]. Tark KC, et al. Effects of ginsenoside Rb₁ on hypertrophic scar remodeling in rabbit model. Eur J Pharmacol. 2015 Mar 5;750C:151-9.
- [3]. Huang F, et al. Ginsenoside Rb₁ inhibits neuronal apoptosis and damage, enhances spinal aquaporin 4 expression and improves neurological deficits in rats with spinal cord ischemia/reperfusion injury. Mol Med Rep. 2015 May;11(5):3565-72.
- [4]. Yuan Q, et al. Attenuating effect of Ginsenoside Rb₁ on LPS-induced lung injury in rats. J Inflamm (Lond). 2014 Dec 5;11(1):40.

Caution: Not fully tested. For research purposes only!

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