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PRODUCT INFORMATION



Ginsenoside Rg₃

Item No. 15332

CAS Registry No.: 14197-60-5
Formal Name: 12 β ,20-dihydroxydammar-24-en-3 β -yl 2-O- β -D-glucopyranosyl- β -D-glucopyranoside

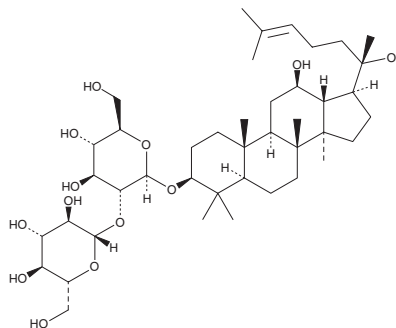
MF: C₄₂H₇₂O₁₃
FW: 785.0

Purity: \geq 95%

Supplied as: A crystalline solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Ginsenoside Rg₃ is supplied as a crystalline solid. A stock solution may be made by dissolving the ginsenoside Rg₃ in the solvent of choice. Ginsenoside Rg₃ is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of ginsenoside Rg₃ in ethanol is approximately 20 mg/ml and approximately 10 mg/ml in DMSO and DMF.

Ginsenoside Rg₃ is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ginsenoside Rg₃ should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Ginsenoside Rg₃ has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Ginsenosides are pharmacologically active natural constituents of ginseng and other plants of the genus *Panax*.¹ Structurally, they are steroid glycosides derived from the triterpene squalene.¹ Ginsenoside Rg₃ is a panaxadiol found in white and red *P. ginseng*.² This ginsenoside has diverse *in vitro* and *in vivo* effects, including anti-cancer, neuroprotective, anti-hypertensive, and anti-inflammatory actions.^{2,3} Ginsenoside Rg₃ induces apoptosis and inhibits angiogenesis in a variety of cancer models.^{2,4,5} Notably, this ginsenoside can be produced by heating other ginsenosides, leading to elevated levels in steamed or dried ginseng preparations.^{2,6}

References

1. Liang, Y. and Zhao, S. *Plant Biol. (Stuttg)* **10(4)**, 415-421 (2008).
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3. Helms, S. *Altern. Med. Rev.* **9(3)**, 259-274 (2004).
4. Yu, Y., Zhang, C., Liu, L., et al. *Exp. Ther. Med.* **5(3)**, 761-766 (2013).
5. Liu, T.-G., Huang, Y., Cui, D.-D., et al. *BMC Cancer* **9**, 250 (2009).
6. Kim, I.-W., Cha, K.-M., Wee, J.J., et al. *J. Ginseng Res.* **37(4)**, 475-482 (2013).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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