



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION



Ginsenoside Rb₁

Item No. 15319

CAS Registry No.: 41753-43-9
Formal Name: 20-[[6-O-β-D-glucopyranosyl-β-D-glucopyranosyl]oxy]-12β-hydroxydammar-24-en-3β-yl 2-O-β-D-glucopyranosyl-β-D-glucopyranosid

Synonyms: Gypenoside III, NSC 310103

MF: C₅₄H₉₂O₂₃

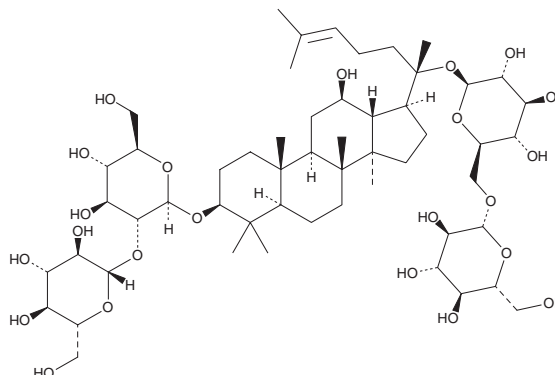
FW: 1,109.3

Purity: ≥98%

Supplied as: A crystalline solid

Storage: -20°C

Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Ginsenoside Rb₁ is supplied as a crystalline solid. A stock solution may be made by dissolving the ginsenoside Rb₁ in the solvent of choice. Ginsenoside Rb₁ is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of ginsenoside Rb₁ in these solvents is approximately 0.1, 10, and 15 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of ginsenoside Rb₁ can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of ginsenoside Rb₁ in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Ginsenosides are pharmacologically active natural compounds from ginseng and other plants of the genus *Panax*.¹ Structurally, they are steroid glycosides derived from the triterpene squalene.¹ They are named according to their migration on thin layer chromatography plates, from the bottom to the top.¹ Ginsenoside Rb₁ is a protopanaxadiol, which is more abundant in some *Panax* species (e.g., *P. quinquefolium*) than others.² This ginsenoside and its metabolites have diverse *in vitro* and *in vivo* effects, including neuroprotective, anti-inflammatory, and anti-obesity actions.²⁻⁴ Ginsenoside Rb₁ may inhibit apoptosis, while its metabolites can promote this response.^{3,5} Notably, this ginsenoside is converted to other forms in response to steaming or heating plant materials, leading to loss of activity.^{2,6}

References

1. Liang, Y. and Zhao, S. *Plant Biol. (Stuttg)* **10(4)**, 415-421 (2008).
2. Chen, C.-F., Chiou, W.-F., and Zhang, J.-T. *Acta. Pharmacol. Sin.* **29(9)**, 1103-1108 (2008).
3. Wang, X.-F., Liu, X., Zhou, Q.-M., et al. *Evid. Based Complement. Alternat. Med.* **2013**, 454389 (2013).
4. Liu, D., Zhang, H., Gu, W., et al. *PLoS One* **8(11)**, e793399 (2013).
5. Helms, S. *Altern. Med. Rev.* **9(3)**, 259-274 (2004).
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.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 04/11/2016

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM