



# SZABO SCANDIC

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## Produktinformation



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# PRODUCT INFORMATION



## Ginsenoside Rg<sub>2</sub>

Item No. 15331

CAS Registry No.: 52286-74-5

Formal Name: (6 $\alpha$ )-3 $\beta$ ,12 $\beta$ ,20-trihydroxydammar-24-en-6-yl 2-O-(6-deoxy- $\alpha$ -L-mannopyranosyl)- $\beta$ -D-glucopyranoside

Synonyms: Chikusetsusaponin I, Panaxoside Rg<sub>2</sub>, Prosapogenin C<sub>2</sub>

MF: C<sub>42</sub>H<sub>72</sub>O<sub>13</sub>

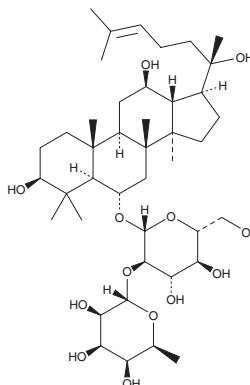
FW: 785.0

Purity:  $\geq$ 98%

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 Rg<sub>2</sub> is supplied as a crystalline solid. A stock solution may be made by dissolving the ginsenoside Rg<sub>2</sub> in the solvent of choice. Ginsenoside Rg<sub>2</sub> is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of ginsenoside Rg<sub>2</sub> in these solvents is approximately 10 mg/ml.

Ginsenoside Rg<sub>2</sub> is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ginsenoside Rg<sub>2</sub> should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Ginsenoside Rg<sub>2</sub> has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO: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 compounds from ginseng and other plants of the genus *Panax*.<sup>1</sup> Structurally, they are steroid glycosides derived from the triterpene squalene.<sup>1</sup> Ginsenoside Rg<sub>2</sub> is a protopanaxatriol that is more abundant in some *Panax* species (e.g., white and red *P. ginseng*) than others.<sup>2</sup> This ginsenoside and its metabolites have diverse *in vitro* and *in vivo* effects, including neuroprotective, anti-inflammatory, and anti-diabetic actions.<sup>3-5</sup> It also protects against DNA damage and apoptosis induced by ultraviolet light.<sup>6</sup> Notably, this ginsenoside is increased by the metabolism of other bioactive ginsenosides during the steaming or heating of plant materials, particularly in *P. quinquefolium*.<sup>2,7</sup>

### References

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3. Zhang, G., Liu, A., Zhou, Y., et al. *J. Ethnopharmacol.* **115(3)**, 441-448 (2008).
4. Cho, Y.S., Kim, C.H., Ha, T.S., et al. *Korean J. Physiol. Pharmacol.* **17(2)**, 133-137 (2013).
5. Yuan, H.D., Kim, D.Y., Quan, H.Y., et al. *Chem. Biol. Interact.* **195(1)**, 35-42 (2012).
6. Ha, S.E., Shin, D.H., Kim, H.D., et al. *Naunyn Schmiedebergs Arch. Pharmacol.* **382(1)**, 89-101 (2010).
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#### 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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