



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## Diosgenin

Item No. 19847

**CAS Registry No.:** 512-04-9  
**Formal Name:** (3 $\beta$ ,25R)-spirost-5-en-3-ol  
**Synonyms:** Nitogenin, NSC 33396,  
3 $\beta$ -hydroxy-5-Spirostene

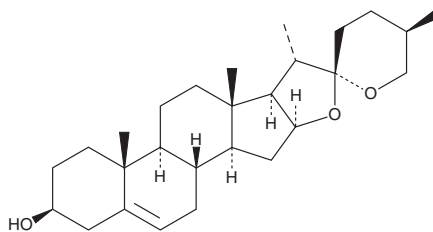
**MF:** C<sub>27</sub>H<sub>42</sub>O<sub>3</sub>  
**FW:** 414.6

**Purity:**  $\geq$ 98%

**Supplied as:** A crystalline solid

**Storage:** Room temperature

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



### Laboratory Procedures

Diosgenin is supplied as a crystalline solid. A stock solution may be made by dissolving the diosgenin in the solvent of choice. Diosgenin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of diosgenin in these solvents is approximately 30 mg/ml.

Diosgenin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, diosgenin should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Diosgenin has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Diosgenin is a natural steroid sapogenin that has diverse biochemical and physiological actions. It has antioxidant and anti-inflammatory activities, is protective against metabolic and cardiovascular diseases, and can have immunomodulatory and estrogenic effects.<sup>1-4</sup>

### References

1. Lee, K. J., Oh, Y. C., Cho, W. K., *et al.* Antioxidant and anti-inflammatory activity determination of one hundred kinds of pure chemical compounds using offline and online screening HPLC assay. *Evid. Based Complement. Alternat. Med.* (2015).
2. Sung, B., Prasad, S., Yadav, V. R., *et al.* Cancer cell signaling pathways targeted by spice-derived nutraceuticals. *Nutr. Cancer* **64**(2), 173-197 (2012).
3. Chen, Y., Tang, Y. M., Yu, S. L., *et al.* Advances in the pharmacological activities and mechanisms of diosgenin. *Chin. J. Nat. Med.* **13**(8), 578-587 (2015).
4. Fuller, S., and Stephens, J. S. Diosgenin, 4-hydroxyisoleucine, and fiber from fenugreek: Mechanisms of actions and potential effects on metabolic syndrome. *Adv. Nutr.* **6**(2), 189-197 (2015).

#### 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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