



# 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

### 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

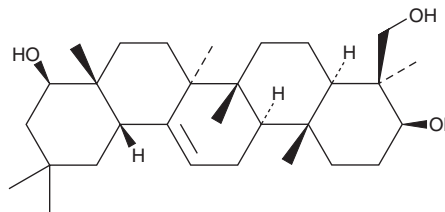
# PRODUCT INFORMATION



## Soyasapogenol B

Item No. 40270

**CAS Registry No.:** 595-15-3  
**Formal Name:** (3 $\beta$ ,4 $\beta$ ,22 $\beta$ )-olean-12-ene-3,22,23-triol  
**Synonyms:** Soyasapogenin B, Soyasapogenol I  
**MF:** C<sub>30</sub>H<sub>50</sub>O<sub>3</sub>  
**FW:** 458.7  
**Purity:**  $\geq$ 98%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:**  $\geq$ 4 years  
**Item Origin:** Plant/*Glycine max*



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

### Laboratory Procedures

Soyasapogenol B is supplied as a solid. A stock solution may be made by dissolving the soyasapogenol B in the solvent of choice, which should be purged with an inert gas. Soyasapogenol B is soluble in organic solvents such as DMSO. Soyasapogenol B is slightly soluble in chloroform and methanol.

### Description

Soyasapogenol B is a triterpenoid that has been found in *A. membranaceus* and has diverse biological activities.<sup>1-3</sup> It inhibits LPS-induced increases in the levels of nitric oxide (NO) in RAW 264.7 macrophages when used at a concentration of 95.6  $\mu$ M.<sup>1</sup> Soyasapogenol B (12.5  $\mu$ M) decreases triglyceride levels, as well as increases glycerol and free fatty acids levels in, and decreases the levels of resistin secreted from, 3T3-L1 adipocytes.<sup>2</sup> *In vivo*, soyasapogenol B (80 mg/kg) reduces plasma levels of alanine transaminase (ALT) in a mouse model of autoimmune hepatitis induced by concanavalin A (Item No. 14951).<sup>3</sup>

### References

1. Wang, Z.B., Zhai, Y.D., Ma, Z.P., *et al.* Triterpenoids and flavonoids from the leaves of *Astragalus membranaceus* and their inhibitory effects on nitric oxide production. *Chem. Biodivers.* **12(10)**, 1575-1584 (2015).
2. Iwamoto, K., Kamo, S., Takada, Y., *et al.* Soyasapogenols reduce cellular triglyceride levels in 3T3-L1 mouse adipocyte cells by accelerating triglyceride lipolysis. *Biochem. Biophys. Rep.* **16**, 44-49 (2018).
3. Sasaki, K., Minowa, N., Kuzuhara, H., *et al.* Preventive effects of soyasapogenol B derivatives on liver injury in a concanavalin A-induced hepatitis model. *Bioorg. Med. Chem.* **13(16)**, 4900-4911 (2005).

#### 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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#### 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