



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) 

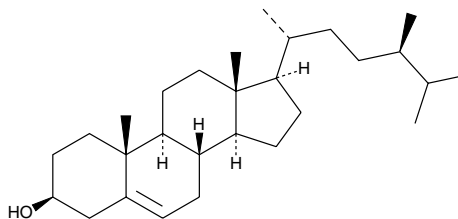
Product Information



24 α -methyl Cholesterol

Item No. 17344

CAS Registry No.: 474-62-4
Formal Name: (3 β ,24R)-ergost-5-en-3-ol
Synonyms: Campesterol, NSC 224330
MF: C₂₈H₄₈O
FW: 400.7
Purity: \geq 95%
Stability: \geq 2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that 24 α -methyl cholesterol be stored as supplied at -20°C. It should be stable for at least two years.

24 α -methyl Cholesterol is supplied as a crystalline solid. A stock solution may be made by dissolving the 24 α -methyl cholesterol in the solvent of choice. 24 α -methyl Cholesterol is soluble in organic solvents such as ethanol and dimethyl formamide, which should be purged with an inert gas. The solubility of 24 α -methyl cholesterol in these solvents is approximately 0.25 and 1 mg/ml, respectively.

24 α -methyl Cholesterol is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

24 α -methyl Cholesterol is a phytosterol found in vegetables, fruits, nuts, and seeds that competitively inhibits the absorption of intestinal cholesterol and decreases the transcription of genes important for cholesterol metabolism.¹ The cholesterol lowering effects of phytosterols, such as 24 α -methyl cholesterol, have been reported to be beneficial for lowering the incidence of atherosclerotic plaques.² 24 α -methyl Cholesterol can also act as an agonist at liver X receptors (LXR) and, through activation of LXR signaling, has been shown to suppress the proliferation of prostate and breast cancer cells.³

References

1. Segura, R., Javierre, C., Lizarraga, M.A., *et al.* Other relevant components of nuts: Phytosterols, folate and minerals. *Br. J. Nutr.* **96(Suppl 2)**, S36-S44 (2006).
2. Mannarino, E., Pirro, M., Cortese, C., *et al.* Effects of a phytosterol-enriched dairy product on lipids, sterols and 8-isoprostane in hypercholesterolemic patients: A multicenter Italian study. *Nutr. Metab. Cardiovasc. Dis.* **19**, 84-90 (2009).
3. Chuu, C.-P., Kokontis, J.M., Hiipakka, R.A., *et al.* Modulation of liver X receptor signaling as novel therapy for prostate cancer. *J. Biomed. Sci.* **14**, 543-553 (2007).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/17344

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. 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

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will **meet our specifications at the time of delivery**.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have **any obligation or liability**, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer's **exclusive remedy** and Cayman's sole liability hereunder shall be limited to a **refund** of the purchase price, or at Cayman's option, the **replacement**, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our **Warranty and Limitation of Remedy located on our website and in our catalog**.

Copyright Cayman Chemical Company, 03/09/2015

Cayman Chemical

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com