



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) 

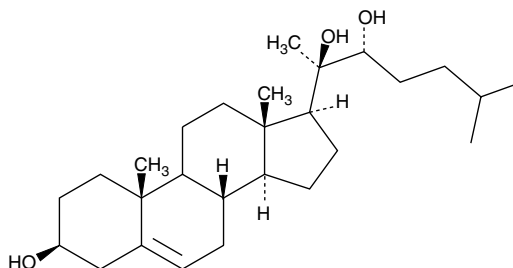
Product Information



Oxy-16

Item No. 9000395

CAS Registry No.: 596-94-1
Formal Name: cholest-5-ene-3 β ,20,22R-triol
Synonym: 20(R),22(R)-dihydroxy Cholesterol
MF: C₂₇H₄₆O₃
FW: 418.7
Purity: \geq 95%
Stability: \geq 2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that oxy-16 be stored as supplied at -20°C. It should be stable for at least two years.

Oxy-16 is supplied as a crystalline solid. A stock solution may be made by dissolving the oxy-16 in the solvent of choice. Oxy-16 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of oxy-16 in ethanol is approximately 10 mg/ml and approximately 1.5 mg/ml in DMSO and DMF.

If aqueous stock solutions are required for biological experiments, they can best be prepared by dissolving the compound in aqueous buffers or isotonic saline. Ensure that 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.

Naturally occurring oxysterols are products of cholesterol oxidation that can stimulate the hedgehog (Hh) signaling pathway in target cells associated with cardiovascular disease and with bone formation.¹ Depending on the target cell, activation of Hh signaling can modulate inflammatory responses to additional atherogenic factors such as lesion-producing macrophages or enable osteoblast differentiation.^{2,3} Oxy-16 is a synthetic oxysterol compound that may function as an antagonist of hedgehog activity. Published data regarding its efficacy remains forthcoming.

References

1. Dwyer, J.R., Sever, N., Carlson, M., *et al.* Oxysterols are novel activators of the hedgehog signaling pathway in pluripotent mesenchymal cells. *J. Biol. Chem.* **282**(12), 8959-8968 (2007).
2. Björkhem, I. and Diczfalusy, U. Oxysterols: Friends, foes, or just fellow passengers? *Arterioscler. Thromb. Vasc. Biol.* **22**, 734-742 (2002).
3. Amantea, C.M., Kim, W.-K., Meliton, V., *et al.* Oxysterol-induced osteogenic differentiation of marrow stromal cells is regulated by Dkk-1 inhibitable and PI3-kinase mediated signaling. *J. Cell. Biochem.* **105**(2), 424-436 (2008).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/9000395

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

MATERIAL 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 Material 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, 06/15/2012

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