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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

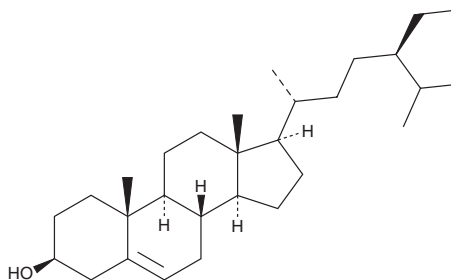


24 α -ethyl Cholesterol

Item No. 11756

CAS Registry No.: 83-46-5
Formal Name: stigmast-5-en-3 β -ol
Synonyms: Azuprostat, Betaprost, Cupreol, NSC 18173, NSC 49083, NSC 8096, Rhamnol, β -Sitosterol, SKF 14463, 22,23-dihydro-Stigmasterol

MF: C₂₉H₅₀O
FW: 414.7
Purity: \geq 70%
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

24 α -ethyl Cholesterol is supplied as a crystalline solid. A stock solution may be made by dissolving the 24 α -ethyl cholesterol in the solvent of choice. 24 α -ethyl 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 -ethyl cholesterol in these solvents is approximately 0.25 and 3 mg/ml, respectively.

24 α -ethyl 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.

Description

24 α -ethyl Cholesterol is a naturally occurring plant sterol with antioxidant, anticancer, anti-inflammatory, angiogenic, chemopreventive, and immunomodulatory activities. It inhibits the absorption of dietary and endogenously-produced cholesterol from the small intestine, reducing blood cholesterol concentrations.¹ Because of its nutraceutical benefits, 24 α -ethyl cholesterol has been used as a food additive intended to lower LDL cholesterol.^{1,2} 24 α -ethyl Cholesterol (0.1 - 100 μ M) can dose-dependently induce adipogenesis and lipolysis in rat primary preadipocytes as well as stimulate glucose uptake in differentiated adipocytes.²

References

1. Song, Y.-H., Hong, S., Lim, H., *et al.* Effect of a new β -sitosterol analogue on plasma lipid concentrations in rats. *Chem. Pharm. Bull.* **52(5)**, 597-601 (2004).
2. Chai, J.-W., Lim, S.-L., Kanthimathi, M.S., *et al.* Gene regulation in β -sitosterol-mediated stimulation of adipogenesis, glucose uptake, and lipid mobilization in rat primary adipocytes. *Genes Nutr.* **6**, 181-188 (2011).

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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