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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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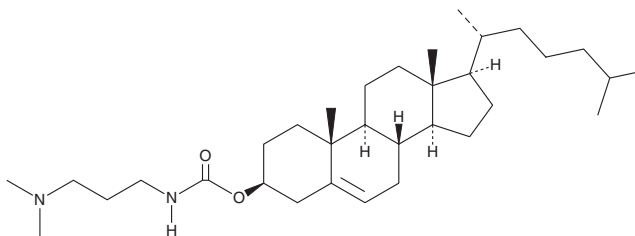
PRODUCT INFORMATION



DMPAC-Chol

Item No. 26583

CAS Registry No.: 184582-91-0
Formal Name: (3β)-cholest-5-en-3-ol
3-[[3-(dimethylamino)propyl]carbamate]
Synonym: Chol-T
MF: C₃₃H₅₈N₂O₂
FW: 514.8
Purity: ≥95%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

DMPAC-Chol is supplied as a crystalline solid. A stock solution may be made by dissolving the DMPAC-chol in the solvent of choice. DMPAC-Chol is soluble in organic solvents such as ethanol and dimethyl formamide, which should be purged with an inert gas. The solubility of DMPAC-chol in these solvents is approximately 10 mg/ml.

DMPAC-Chol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, DMPAC-chol should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. DMPAC-Chol has a solubility of approximately 0.14 mg/ml in a 1:6 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

DMPAC-Chol is a cationic cholesterol derivative that has been used in liposome formation for gene transfection.¹ Liposomes containing DMPAC-chol bind to DNA in a band shift assay and protect against serum nuclease degradation of DNA when used at liposome:DNA ratios ranging from 2.5:1 to 10:1 w/w. DMPAC-Chol-containing liposomes also reduce viability of HepG2 cells by 63% when used at a concentration of 37.5 µg/ml.

Reference

1. Kiso, N., Ariatti, M., and Moodley, T. A novel cationic cholesterol derivative, its formulation into liposomes, and the efficient transfection of the transformed human cell lines HepG2 and HeLa. *Drug Deliv.* **9**(3), 161-167 (2002).

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.

WARRANTY AND LIMITATION OF REMEDY

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