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Produktinformation

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- 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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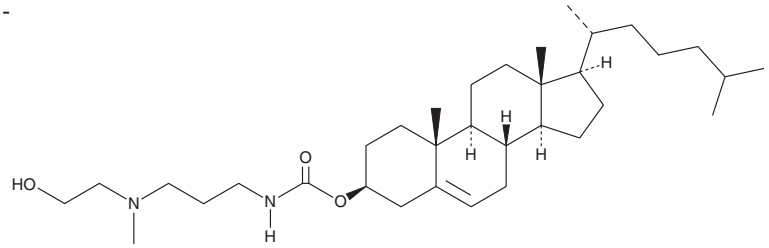
PRODUCT INFORMATION

MHAPC-Chol

Item No. 26585

CAS Registry No.:	1027801-74-6
Formal Name:	(3β)-cholest-5-en-3-ol, 3-[N-[3-[(2-hydroxyethyl)methyl amino]propyl]carbamate]
MF:	$C_{34}H_{60}N_2O_3$
FW:	544.9
Purity:	≥95%
UV/Vis.:	λ_{max}: 219 nm
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

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

MHAPC-Chol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, MHAPC-chol should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. MHAPC-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

MHAPC-Chol is a cationic cholesterol.[1] MHAPC-Chol, as part of a lipoplex with DOPE (Item No. 15091), has been used for siRNA delivery and gene silencing in MCF-7 cells in a luciferase assay without affecting cell viability. It has also been used to deliver siRNA into mice *via* intravenous injection, resulting in MHAPC-chol accumulation in the liver.

Reference

1. Hattori, Y., Nakamura, M., Takeuchi, N., *et al.* Effect of cationic lipid in cationic liposomes on siRNA delivery into the lung by intravenous injection of cationic lipoplex. *J. Drug. Target* **27(2)**, 217-227 (2019).

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