

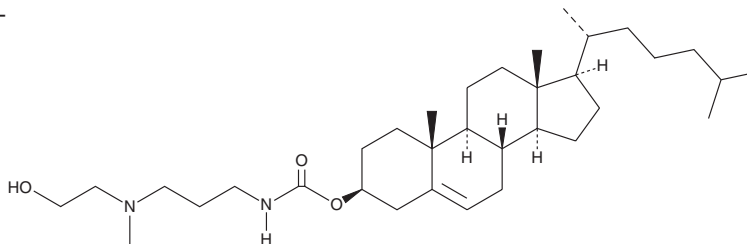
# PRODUCT INFORMATION



## MHAPC-Chol

Item No. 26585

**CAS Registry No.:** 1027801-74-6  
**Formal Name:** (3 $\beta$ )-cholest-5-en-3-ol, 3-[N-  
[3-[(2-hydroxyethyl)methyl  
amino]propyl]carbamate]  
**MF:** C<sub>34</sub>H<sub>60</sub>N<sub>2</sub>O<sub>3</sub>  
**FW:** 544.9  
**Purity:**  $\geq$ 95%  
**UV/Vis.:**  $\lambda_{\text{max}}$ : 219 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:**  $\geq$ 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.<sup>1</sup> 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).

#### 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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