

# Cholesterol Protocol

Catalog Number: 26436

## INTRODUCTION

Cholesterol is a sterol lipid used in lipid based nano delivery systems (LNPs, NLCs, SLNs, etc.) as it modulates membrane fluidity, stabilizes lipid bilayers, and facilitates cellular fusion of these vehicles. Cholesterol is an important component of mRNA vaccines including COVID-19 and influenza vaccines.

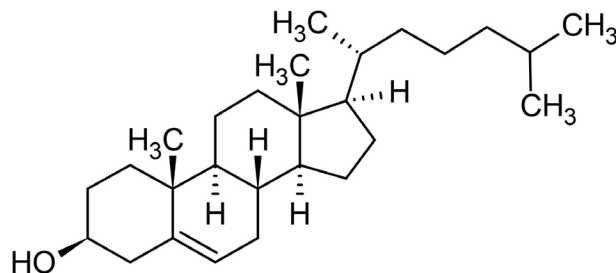
## SPECIFICATIONS:

Synonym(s):

Cholesterol

Molecular Formula:  $C_{27}H_{46}O$

<b>CAS Number:</b>	57-88-5
<b>Purity:</b>	≥ 99%
<b>Molecular Weight:</b>	386.65
<b>Appearance:</b>	white solid
<b>Storage:</b>	-20°C



## PREPARATION:

Cholesterol stock solutions can be prepared by dissolving in an organic solvent of choice. Cholesterol is soluble in chloroform (30 mg/ml), ethanol (25 mg/ml), and slightly soluble in DMSO. Once dissolved, the mixture can be stored at -20°C for up to 1 month.

## ORDERING INFORMATION

Cat. #	Description
26436	Cholesterol

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Contact us at [info@polysciences.com](mailto:info@polysciences.com) to learn about our cGMP grade Cholesterol manufactured under 21 CFR part 210, 211.