# **PRODUCT** INFORMATION



## A28-C6B2

Item No. 42017

Formal Name:	<i>bis</i> (2-butyloctyl) 6,6'-((5-hydroxypentyl)azanediyl dihexanoate	)
MF:	C <sub>41</sub> H <sub>81</sub> NO <sub>5</sub>	0 0
FW:	668.1	
Purity:	≥98%	
Supplied as:	A solution in ethanol	
Storage:	-20°C	
Stability:	≥2 years	
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.		

## Description

A28-C6B2 is an ionizable cationic lipid (pK<sub>a</sub> = 6.43) that has been used in the generation of lipid nanoparticles (LNPs) for the delivery of mRNA in vivo.<sup>1</sup> LNPs containing A28-C6B2 accumulate primarily in the spleen in mice after intravenous administration and target F4/80<sup>+</sup> macrophages, Cd11c<sup>+</sup> dendritic cells, and to a lesser extent, T cells.

## Reference

1. Ren, Y., Zeng, L., Tang, Y., et al. Enhancing spleen-targeted mRNA delivery with branched biodegradable tails in lipid nanoparticles. J. Mater. Chem. B. 12(33), 8062-8066 (2024).

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.

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 03/25/2025

## **CAYMAN CHEMICAL**

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897 [734] 971-3335 FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.CAYMANCHEM.COM