PRODUCT INFORMATION



Q₁-ALC-0315 (iodide)

Item No. 41240

Formal Name: 6-((2-hexyldecanoyl)oxy)-N-(6-((2-

hexyldecanoyl)oxy)hexyl)-N-(4-

hydroxybutyl)-N-methylhexan-1-aminium,

monoiodide

MF: C₄₉H₉₈NO₅ • I

908.2 FW: ≥98% **Purity:**

Supplied as: A solution in ethanol

-20°C Storage: Stability: ≥1 vear

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

Description

Q₁-ALC-0315 is a cationic quaternary ammonium lipid derivative of the ionizable cationic lipid ALC-0315 (Item No. 34337) that has been used in the generation of lipid nanoparticles (LNPs) for use in vivo. LNPs containing Q₁-ALC-0315 and ALC-0315 as a cationic lipid pair (CLP) and encapsulating mRNA encoding a luciferase reporter induce luciferase expression in the lungs and spleen in mice.

Reference

1. Zeng, G., He, Z., Yang, H., et al. Cationic lipid pairs enhance liver-to-lung tropism of lipid nanoparticles for in vivo mRNA delivery. ACS Appl. Mater. Interfaces 16(20), 25698-25709 (2024).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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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