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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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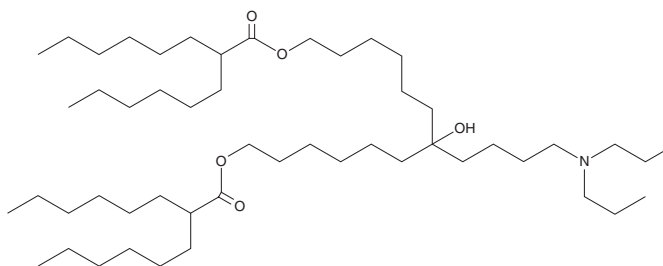
PRODUCT INFORMATION



CL4F8-6

Item No. 38802

CAS Registry No.: 2766493-12-1
Formal Name: 7-(4-(dipropylamino)butyl)-7-hydroxytridecane-1,13-diyl bis(2-hexyloctanoate)
MF: C₅₁H₁₀₁NO₅
FW: 808.4
Purity: ≥98%
Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥1 year



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

Description

CL4F8-6 is an ionizable cationic lipid ($pK_a = 6.14$) that has been used in combination with other lipids in the formation of lipid nanoparticles (LNPs).¹ Intravenous administration of LNPs containing CL4F8-6 and encapsulating an mRNA reporter accumulate specifically in the mouse liver. LNPs containing CL4F8-6 and encapsulating mRNA encoding the Cas9 nuclease (mCas9) and single-guide RNA (sgRNA) targeting *Ttr* (sgTtr), the gene encoding transthyretin, have been used to induce CRISPR-mediated gene knockdown in mice resulting in a reduction of serum levels of TTR.

Reference

1. Hashiba, K., Sato, Y., Taguchi, M., *et al.* Branching ionizable lipids can enhance the stability, fusogenicity, and functional delivery of mRNA. *Small* **3(1)**, 2200071 (2022).

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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