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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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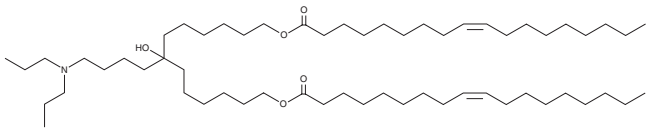
PRODUCT INFORMATION

CL4H6

Item No. 37279

CAS Registry No.:	2256087-35-9
Formal Name:	9-octadecenoic acid, 1,1′-[7-[4-(dipropylamino)butyl]-7-hydroxy-1,13-tridecanediyl] ester
MF:	$C_{59}H_{113}NO_5$
FW:	916.5
Purity:	≥95%
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.

Laboratory Procedures

CL4H6 is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO purged with an inert gas can be used.

Description

CL4H6 is an ionizable cationic amino lipid (apparent pK_a = 6.35) that has been used in the generation of lipid nanoparticles (LNPs).[1] LNPs containing CL4H6 and encapsulating Factor VII-targeting siRNA decrease hepatic levels of Factor VII in mice. Intravenous administration of LNPs containing CL4H6 and encapsulating siRNA targeting CD45 accumulate in tumor-associated macrophages and encapsulating siRNAs targeting STAT3 and HIF-1α decrease tumor volume in OS-RC-2 renal cancer mouse xenograft models.[2]

References

1. Sato, Y., Hashiba, K., Sasaki, K., *et al.* Understanding structure-activity relationships of pH-sensitive cationic lipids facilitates the rational identification of promising lipid nanoparticles for delivering siRNAs *in vivo*. *J. Control. Release* **295**, 140-152 (2019).
2. Shobaki, N., Sato, Y., Suzuki, Y., *et al.* Manipulating the function of tumor-associated macrophages by siRNA-loaded lipid nanoparticles for cancer immunotherapy. *J. Control. Release* **325**, 235-248 (2020).

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