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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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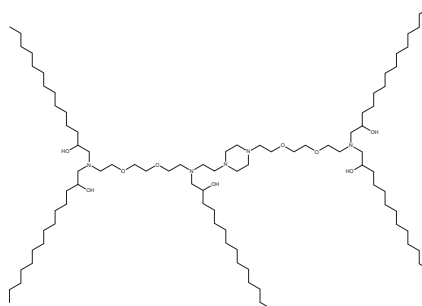
PRODUCT INFORMATION



C14-O2

Item No. 40805

CAS Registry No.: 2639634-77-6
MF: $C_{88}H_{181}N_5O_9$
FW: 1,453.4
Purity: $\geq 95\%$ (mixture of isomers)
Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥ 3 years



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

Laboratory Procedures

C14-O2 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. C14-O2 is sparingly soluble (1-10 mg/ml) in DMSO.

C14-O2 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of C14-O2 should be diluted with the aqueous buffer of choice. C14-O2 is slightly soluble (0.1-1 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

C14-O2 is an ionizable cationic lipid (apparent $pK_a = 6.6$) that has been used in the generation of lipid nanoparticles (LNPs) for the delivery of mRNA *in vitro* and *in vivo*.¹ LNPs containing C14-O2 and encapsulating mRNA encoding chimeric antigen receptor (CAR) induce CAR expression and B cell aplasia in mice.

Reference

1. Mukalel, A.J., Hamilton, A.G., Billingsley, M.M., *et al.* Oxidized mRNA lipid nanoparticles for in situ chimeric antigen receptor monocyte engineering. *Adv. Funct. Mater.* Online ahead of print, 2312038 (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.

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