



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
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



C14-A1

Item No. 40256

Formal Name: 1,1'-((5-(4-(2-((5-(bis(2-hydroxytetradecyl)amino)pentyl)(2-hydroxytetradecyl)amino)ethyl)piperazin-1-yl)pentyl)azanediyl)bis(tetradecan-2-ol)

MF: C₈₆H₁₇₇N₅O₅

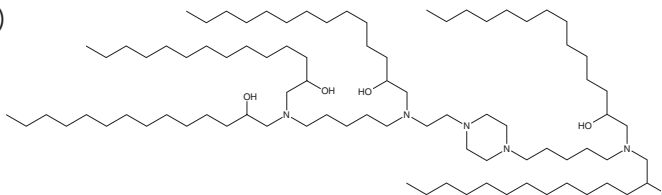
FW: 1,361.4

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

C14-A1 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-A1 is soluble in methanol.

Description

C14-A1 is an ionizable cationic lipid that has been used in the generation of lipid nanoparticles (LNPs).¹ LNPs containing C14-A1 and encapsulating mRNA encoding forkhead box protein P3 (FOXP3) increase FOXP3 levels in primary human T cells. LNPs containing C14-A1 and encapsulating mRNA encoding FOXP3 also reduce the proliferation of primary human CD4⁺/CD8⁺ T cells, as well increase TGF-β1 and decrease IL-10 secretion from CD4⁺/CD8⁺ T cells.

Reference

1. Thatte, A.S., Hamilton, A.G., Nachod, B.E., *et al.* mRNA lipid nanoparticles for *ex vivo* engineering of immunosuppressive T cells for autoimmunity therapies. *Nano Lett.* **23(22)**, 10179-10188 (2023).

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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