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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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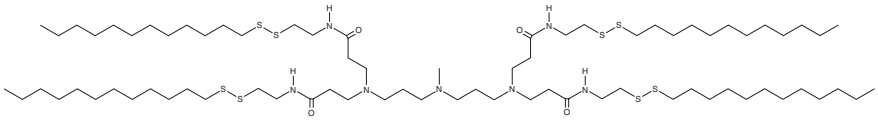
PRODUCT INFORMATION

306-N16B

Item No. 37927

CAS Registry No.:	2803699-70-7
Formal Name:	3,3',3'',3'''-(((methylazanediyl) *bis*(propane-3,1-diyl)) *bis*(azanetriyl))*tetrakis*(N-(2-(dodecyldisulfaneyl)ethyl) propanamide)
MF:	$C_{75}H_{151}N_7O_4S_8$
FW:	1,471.6
Purity:	≥98%
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

306-N16B 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 methanol purged with an inert gas can be used.

Description

306-N16B is an ionizable cationic lipid.[1] It has been used in the generation of lipid nanoparticles (LNPs). Intravenous administration of LNPs containing 306-N16B and encapsulating an mRNA reporter accumulate specifically in the mouse lung primarily in lung endothelial cells. LNPs containing both 306-N16B and 306-O12B (Item No. 37549) and encapsulating mRNA encoding tuberous sclerosis complex 2 (Tsc2), a tumor suppressor, reduce tumor growth in a mouse model of pulmonary lymphangioleiomyomatosis (LAM) induced by intravenous injection of *Tsc2*-null kidney-derived epithelial tumor cells (TTJ cells).

Reference

1. Qiu, M., Tang, Y., Chen, J., *et al.* Lung-selective mRNA delivery of synthetic lipid nanoparticles for the treatment of pulmonary lymphangioleiomyomatosis. *Proc. Natl. Acad. Sci. USA* **119(8)**, e2116271119 (2022).

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