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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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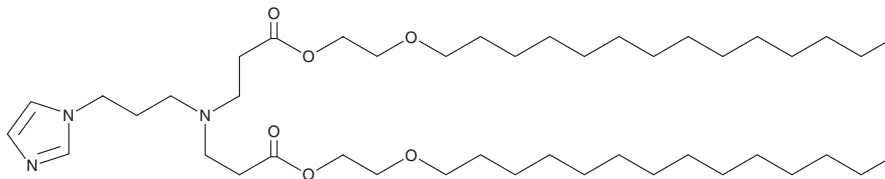
PRODUCT INFORMATION



93-O170

Item No. 34366

CAS Registry No.: 2227214-78-8
Formal Name: bis(2-(tetradecyloxy)ethyl) 3,3'-((3-(1H-imidazol-1-yl)propyl)azanediyl)dipropionate
MF: C₄₄H₈₃N₃O₆
FW: 750.2
Purity: ≥98%
Supplied as: A solution in chloroform
Storage: -20°C
Stability: ≥1 year



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

Description

93-O170 is a chalcogen-containing cationic lipidoid.^{1,2} It has been used in the generation of lipid nanoparticles (LNPs). LNPs containing 93-O170 localize to the spleen after intravenous injection into mice.¹ LNPs containing 93-O170 have been used for the delivery of Cre recombinase and ribonucleoproteins for genome editing in mice and for the intratumoral delivery of cGAMP to enhance cross-presentation of tumor antigens.^{2,3}

References

1. Zhao, X., Chen, J., Qiu, M., *et al.* Imidazole-based synthetic lipidoids for in vivo mRNA delivery into primary T lymphocytes. *Angew Chem. Int. Ed. Engl.* **59(45)**, 20083-20089 (2020).
2. Chen, J., Qiu, M., Ye, Z., *et al.* In situ cancer vaccination using lipidoid nanoparticles. *Sci. Adv.* **7(19)**, eabf1244 (2021).
3. Li, Y., Yang, T., Yu, Y., *et al.* Combinatorial library of chalcogen-containing lipidoids for intracellular delivery of genome-editing proteins. *Biomaterials* **178**, 652-662 (2018).

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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