PRODUCT INFORMATION



93-0170

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

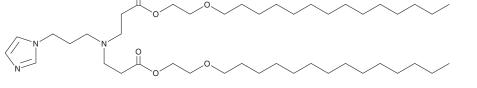
MF: $C_{44}H_{83}N_3O_6$ FW: 750.2

Supplied as: A solution in ethanol

≥98%

Storage: -20°C Stability: ≥1 vear

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



Laboratory Procedures

93-O17O 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. 93-O17O is soluble in the organic solvent chloroform at a concentration of approximately 25 mg/ml.

Description

Purity:

93-O17O is a chalcogen-containing ionizable cationic lipidoid. 1,2 It has been used in the generation of lipid nanoparticles (LNPs). LNPs containing 93-O17O localize to the spleen after intravenous injection into mice. 1 LNPs containing 93-0170 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).
- Chen, J., Qiu, M., Ye, Z., et al. In situ cancer vaccination using lipidoid nanoparticles. Sci. Adv. 7(19), eabf1244 (2021).
- 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.

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.

WARRANTY AND LIMITATION OF REMEDY

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