PRODUCT INFORMATION



BAMEA-016B

Item No. 37439

CAS Registry No.: 2490668-30-7

Formal Name: bis(2-(dodecyldisulfaneyl)ethyl)

> 3,3'-((3-methyl-9-oxo-10-oxa-13,14dithia-3,6-diazahexacosyl)azanediyl)

dipropionate

Synonym: BAMPA-O16B MF: $C_{56}H_{111}N_3O_6S_6$

FW: 1,114.9 **Purity:** ≥95%

Supplied as: A 10 mg/ml solution in methyl acetate

Storage: -20°C Stability: ≥2 years

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

Laboratory Procedures

BAMEA-O16B is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. BAMEA-O16B is soluble in the organic solvent ethanol.

Description

BAMEA-O16B is a disulfide bond-containing ionizable cationic lipid.¹ It has been used in the generation of lipid nanoparticles (LNPs) for the delivery of CRISPR complementary single-guide RNA (sgRNA) and Cas9 mRNA for genome editing in vitro and in vivo. LNPs containing BAMEA-O16B encapsulating Cas9 mRNA and sgRNAs targeting the gene encoding proprotein convertase subtilisin kexin type 9 (PCSK9) accumulate in the liver and decrease serum PCSK9 levels in mice.

Reference

1. Liu, J., Chang, J., Jiang, Y., et al. Fast and efficient CRISPR/Cas9 genome editing in vivo enabled by bioreducible lipid and messenger RNA nanoparticles. Adv. Mater. 31(33), e1902575 (2019).

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.

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