

Product Data Sheet

Product Name: AA3-DLin

Cat. No.: GC52230

Chemical Properties

Cas. No.

SMILES O=C(CCCCCC/C=C\C/C=C\CCCC)OCCN1CCN(CCOC(CCCCCC/C=C\C/C=C\CCCC)=O)CC1

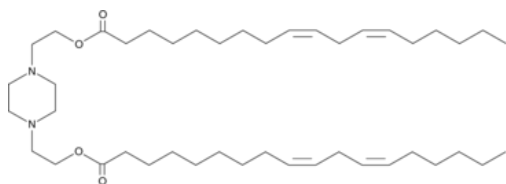
Formula $C_{44}H_{78}N_2O_4$ M.Wt 699.1

Solubility Ethanol: 25 mg/ml Storage $-20^{\circ}C$

General For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Evaluation sample solution: ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

AA3-DLin is an ionizable cationic amino lipid ($pK_a = 5.8$) that has been used in combination with other lipids in the formation of lipid nanoparticles (LNPs) for the delivery of mRNA.¹ LNPs containing AA3-DLin and encapsulating mRNA for the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) spike glycoprotein induce immunogenicity in mice.

1. Li, Z., Zhang, X.-Q., Ho, W., et al. Enzyme-catalyzed one-step synthesis of ionizable cationic lipids for lipid nanoparticle-based mRNA COVID-19 vaccines ACS Nano 16(11)18936-18950(2022)

Caution: Product has not been fully validated for medical applications. For research use only.

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