

Product Data Sheet

Product Name: CP-LC-1447

Cat. No.: GC92084

Chemical Properties

Cas. No.

Chemical Name dioctyl 3,3'-((8-((1-((2-(1H-imidazol-1-yl)ethyl)amino)-1-oxo-4-((3-oxo-3-(tridecyloxy)propyl)thio)butan-2-yl)amino)-8-oxooctane-1,3-diyl)bis(sulfanediyl))dipropionate

SMILES O=C(NCCN1C=CN=C1)C(CCSCCC(OCCCCCCCCCCCCC)=O)NC(CCCCC(CCSCCC(OCCCCCCCCC)=O)SCCC(OCCCCCCCC)=O)=O

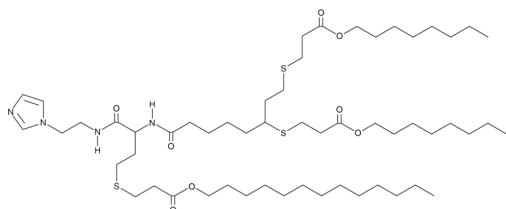
Formula $C_{55}H_{100}N_4O_8S_3$ M.Wt 1041.6

Solubility Ethanol: Soluble: ≥ 10 mg/ml Storage $-20^{\circ}C$

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

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

Structure



Background

Lipid CP-LC-1447 is an ionizable cationic amino lipid derived from homocysteine, a naturally occurring amino acid. This lipid has demonstrated an efficient delivery and high protein expression of different kinds of RNA (mRNA, cRNA and saRNA)?*in vivo*. Moreover, using a typical LNP formulation (IL/Ch/DOPE/PEG: 50/38.5/10/1.5), it has shown to induce specific spleen targeting much more efficiently than other commercial alternatives through IV injection, with no signs of toxicity.

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

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