

Product Data Sheet

Product Name: CP-LC-1428

Cat. No.: GC92081

Chemical Properties

Cas. No.

Chemical Name 6-methylheptyl 7-(2-((3-((2-butyloctyl)oxy)-3-oxopropyl)thio)ethyl)-2-methyl-14-((3-((6-methylheptyl)oxy)-3-oxopropyl)thio)-6,9-dioxo-17-thia-2,5,8-triazaicosan-20-oate

SMILES O=C(NCCN(C)C)C(CCSCCCC(OCC(CCCC)CCCCC)=O)NC(CCCCC(CCSCCCC(OCCC(CCC(C)C)=O)SCCC(OCCCCC(C)C)=O)=O

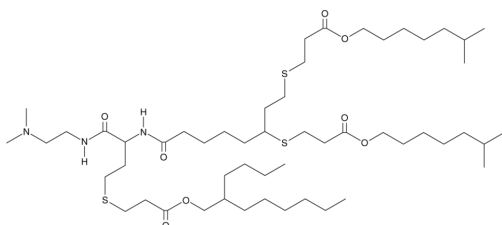
Formula $C_{53}H_{101}N_3O_8S_3$ M.Wt 1004.6

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-1428 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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