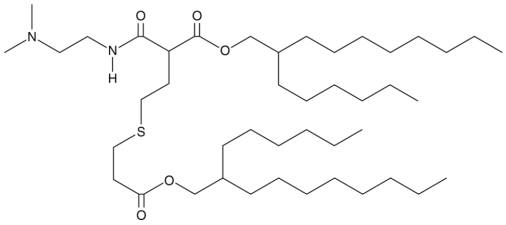
# Product Data Sheet

Product Name: CP-LC-1254
Cat. No.: GC92057

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 3040859-52-4 | | |
| Chemical Name | 2-[[[2-(dimethylamino)ethyl]amino]carbonyl]-4-[[3-[(2-hexyldecyl)oxy]-3-oxopropyl]thio]-butanoic acid, 2-hexyldecyl ester | | |
| SMILES | O=C(C(C(OCC(CCCCCCCC)CCCCCC)=O)CCSCCC(OCC(CCCCCCCC)CCCCCC)=O)NCCN(C)C | | |
| Formula | $C_{44}H_{86}N_2O_5S$ | M.Wt | 755.2 |
| Solubility | Ethanol: Soluble: ≥10 mg/ml | Storage | -20°C |
| General tips | For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°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-1254 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*, with no signs of toxicity.

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