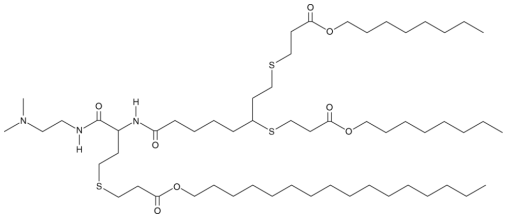
Product Data Sheet

Product Name: CP-LC-1074
Cat. No.: GC92087

Chemical Properties

Cas. No.			
SMILES	O=C(NCCN(C)C)C(CCSCCC(OCCCCCCCCCCCCCCCC)=O)NC(CCCCC(CCSCCC(OCCCCCCCC)=O)SCCC(OCCCCCCCC)=O)=O		
Formula	$C_{57}H_{109}N_3O_8S_3$	M.Wt	1060.7
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-1074 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 lung targeting much more efficiently that 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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