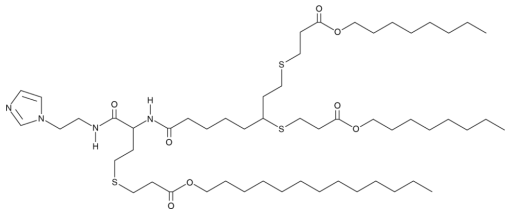
Product Data Sheet

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(OCCCCCCCCCCCCCC)=O)NC(CCCCC(CCSCCC(OCCCCCCCC)=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°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-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 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.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA