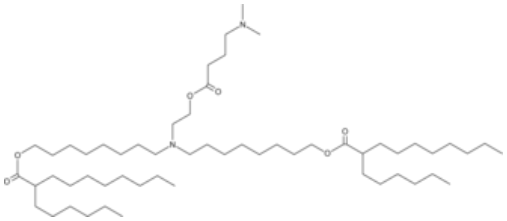
Product Data Sheet

Product Name: Lipid 14
Cat. No.: GC90932

Chemical Properties

Cas. No.	2430034-05-0		
Formula	$C_{56}H_{110}N_2O_6$	M.Wt	907.5
Solubility	Ethanol: Soluble,Methyl Acetate: 25 mg/mL	Storage	Store at -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 14 is an ionizable cationic amino lipid that has been used in the formation of lipid nanoparticles (LNPs).[1] LNPs containing lipid 14 and encapsulating mRNA encoding severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) spike glycoprotein receptor-binding domain (RBD), also known as the surface glycoprotein RBD, increase anti-RBD antibody levels in mice, as well as increase the number of isolated mouse splenocytes secreting IFN-γ and IL-2, but not IL-4 or IL-10, when incubated with the SARS-CoV-2 spike glycoprotein. LNPs containing lipid 14 and encapsulating mRNA encoding the bacterial Caf1 (F1) capsule antigen from *Y. pestis*, the bacteria that causes bubonic plague, induces anti-F1 cellular and humoral responses and protects against lethal *Y. pestis* infection in mice.[2]

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