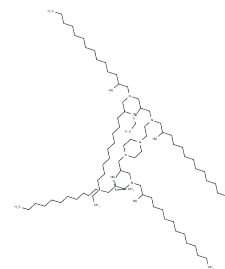


C14-490

Chemical Properties

CAS No. : 2639634-82-3
 Formula: C₈₆H₁₇₇N₅O₇
 Molecular Weight: 1393.35
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	C14-490 is an ionizable cationic lipid (pKa= 5.94) utilized in the synthesis of lipid nanoparticles (LNPs). These LNPs serve as a platform for subsequent gene editing studies in hematopoietic stem cells (HSCs) in utero. C14-490 LNPs encapsulate SpCas9 mRNA and TTR sgRNA, employing an optimized B5 formulation parameter, and are further enhanced by the surface attachment of CD45 antibody F(ab') ₂ fragments to create Systemically Targeted Editing Mechanism LNPs (STEM LNPs).
Targets(IC50)	Liposome

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7177 mL	3.5885 mL	7.1769 mL
5 mM	0.1435 mL	0.7177 mL	1.4354 mL
10 mM	0.0718 mL	0.3588 mL	0.7177 mL
50 mM	0.0144 mL	0.0718 mL	0.1435 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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