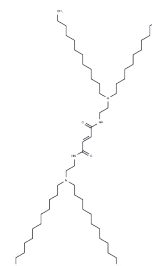


YHS-12

Chemical Properties

CAS No. : 2959463-68-2
 Formula: C₅₆H₁₁₂N₄O₂
 Molecular Weight: 873.51
 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	YHS-12, a ionizable cationic lipid (pKa = 6.506), has been utilized both in vitro and in vivo for delivering siRNA and mRNA via lipid nanoparticles (LNPs). These LNPs comprise YHS-12 and a targeting peptide CRVLRSGSC aimed at macrophages, encapsulating chimeric antigen receptor mRNA targeted at methicillin-resistant Staphylococcus aureus (MRSA) and siRNA against caspase-11. The LNPs have enhanced the phagocytic efficiency against MRSA in RAW 264.7 macrophages and primary murine bone marrow-derived macrophages (BMDMs). Administered intravenously, these LNPs have reduced bacterial load in the bloodstream and increased survival rates in a sepsis model in cyclophosphamide-induced immunosuppressed mice.
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1448 mL	5.724 mL	11.4481 mL
5 mM	0.229 mL	1.1448 mL	2.2896 mL
10 mM	0.1145 mL	0.5724 mL	1.1448 mL
50 mM	0.0229 mL	0.1145 mL	0.229 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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