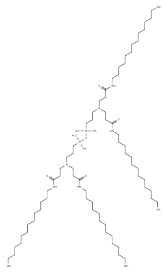
Data Sheet (Cat.No.TCL-01062)

TargetMol

Si5-N14

Chemical Properties



CAS No. : 3006860-57-4

Formula: C78H160N6O5Si2

Molecular Weight: 1318.31

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	Si5-N14 is a key component of siloxane-linked lipid nanoparticles (SiLNP) with properties that enhance vascular repair and exhibit antitumor activity. In transgenic GFP mouse models, Si5-N14 mediates CRISPR-Cas9 editing. In Lewis lung carcinoma (LLC) tumor mouse models, it leads to the knockdown of vascular endothelial growth factor receptor 2 (VEGFR2), producing antitumor effects. Additionally, in mice with virus-induced lung injury, Si5-N14 facilitates the delivery of fibroblast growth factor-2 (FGF-2) mRNA, promoting vascular repair, oxygenation, and improved lung function. Si5-N14 shows potential for research in tumors, pneumonia, and cardiovascular diseases.
Targets(IC50)	FGFR,Liposome,VEGFR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7585 mL	3.7927 mL	7.5855 mL
5 mM	0.1517 mL	0.7585 mL	1.5171 mL
10 mM	0.0759 mL	0.3793 mL	0.7585 mL
50 mM	0.0152 mL	0.0759 mL	0.1517 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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481