

TCL065

Chemical Properties

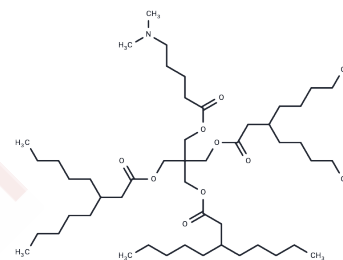
CAS No. : 1872269-57-2

Formula: C₅₁H₉₇N₀O₈

Molecular Weight: 852.32

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	TCL065, an ionizable cationic lipid (pKa = 6.3), is utilized in the creation of lipid nanoparticles (LNPs) for the delivery of mRNA and single-guide RNA (sgRNA) both in vitro and in vivo. When LNPs with TCL065 encapsulate sgRNA targeting the donor site of dystrophin exon 45, along with those targeting the splicing acceptor site of dystrophin exon 45, dystrophin expression is restored in myoblasts derived from induced-pluripotent stem (iPS) cells from Duchenne muscular dystrophy (DMD) patients. Additionally, TCL065-containing LNPs encapsulating mRNA encoding Cas9 nuclease, combined with those containing sgRNA targeting the Rosa26 locus, have been applied for CRISPR-mediated gene editing in mouse gastrocnemius muscle.
Targets(IC50)	Others,Liposome

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1733 mL	5.8663 mL	11.7327 mL
5 mM	0.2347 mL	1.1733 mL	2.3465 mL
10 mM	0.1173 mL	0.5866 mL	1.1733 mL
50 mM	0.0235 mL	0.1173 mL	0.2347 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

Tel:781-999-4286

E_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481