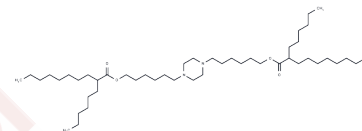


## Lipid PPz-2R1

### Chemical Properties

CAS No. : 2832061-40-0  
 Formula: C<sub>48</sub>H<sub>94</sub>N<sub>2</sub>O<sub>4</sub>  
 Molecular Weight: 763.27  
 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	Lipid PPz-2R1 is an ionizable cationic lipid employed in crafting lipid nanoparticles (LNPs) for mRNA delivery both in vitro and in vivo. LNPs with lipid PPz-2R1, encapsulating an mRNA reporter, target the lungs preferentially over the heart, liver, spleen, and kidneys in mice. Additionally, these LNPs, when encapsulating mRNA encoding phosphatase and tensin homolog (PTEN), enhance PTEN protein levels in PTEN-deficient Lewis lung carcinoma (LLC) cells. In an orthotopic murine LLC model, these Lipid PPz-2R1-containing LNPs, carrying PTEN mRNA, reduce tumor growth either when administered alone or alongside an antibody against programmed cell death protein 1 (PD-1).
Targets(IC50)	Others,Liposome

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3102 mL	6.5508 mL	13.1015 mL
5 mM	0.262 mL	1.3102 mL	2.6203 mL
10 mM	0.131 mL	0.6551 mL	1.3102 mL
50 mM	0.0262 mL	0.131 mL	0.262 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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