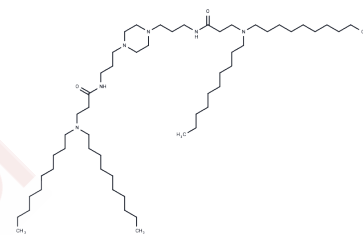


PPZ-A10

Chemical Properties

CAS No. :	2941268-67-1
Formula:	C ₅₆ H ₁₁₄ N ₆ O ₂
Molecular Weight:	903.54
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	PPZ-A10 is an ionisable cationic lipid suitable for synthesising lipid nanoparticles (LNPs) to deliver siRNA and mRNA in vitro and in vivo.
Targets(IC50)	Others,Liposome

Solubility Information

Solubility	DMSO: 80 mg/mL (88.54 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1068 mL	5.5338 mL	11.0676 mL
5 mM	0.2214 mL	1.1068 mL	2.2135 mL
10 mM	0.1107 mL	0.5534 mL	1.1068 mL
50 mM	0.0221 mL	0.1107 mL	0.2214 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.

Reference

- Ni H, et al. Piperazine-derived lipid nanoparticles deliver mRNA to immune cells in vivo. *Nat Commun.* 2022;13(1):4766.
- Subhan MA, et al. Biopolymer-Based Nanosystems for siRNA Drug Delivery to Solid Tumors including Breast Cancer. *Pharmaceutics.* 2023 Jan 1;15(1):153.

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