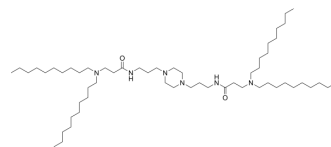


## PPZ-A10

<b>Cat. No.:</b>	HY-156857		
<b>CAS No.:</b>	2941268-67-1		
<b>Molecular Formula:</b>	C <sub>56</sub> H <sub>114</sub> N <sub>6</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	903.54		
<b>Target:</b>	Liposome		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (110.68 mM; ultrasonic and warming and heat to 80°C)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

PPZ-A10 is a ionizable lipid that delivered mRNA preferentially to liver and spleen immune cells.

### REFERENCES

[1]. Ni H, Hatit MZC, Zhao K, et al. Piperazine-derived lipid nanoparticles deliver mRNA to immune cells in vivo. Nat Commun. 2022;13(1):4766.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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