CKK-E12

Cat. No.:	HY-134781				
CAS No.:	1432494-65-9				
Molecular Formula:	$C_{60}H_{120}N_{4}O_{6}$				
Molecular Weight:	993.62				
Target:	Liposome				
Pathway:	Metabolic Enzyme/Protease				
Storage:	Pure form	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	Preparing Stock Solutions	1 mM	1.0064 mL	5.0321 mL	10.0642 mL
	5 mM	0.2013 mL	1.0064 mL	2.0128 mL	
		10 mM	0.1006 mL	0.5032 mL	1.0064 mL

BIOLOGICAL ACTIVITY				
Description	CKK-E12 is a ionizable lipid in combination with other lipids make up the lipid nanoparticles which are used to deliver RNA- based research. CKK-E12 is highly selective toward liver parenchymal cell in vivo,			
In Vivo	CKK-E12 delivers siRNA in mice, rats and primates (ED50 is 0.002, 0.01 and 0.3 mg/kg, respectively) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

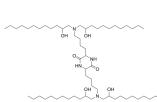
CUSTOMER VALIDATION

• cell rep methods. 2023 Dec 23:100673.

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Product Data Sheet





REFERENCES

[1]. Oberli MA, Reichmuth AM, Dorkin JR, et al. Lipid Nanoparticle Assisted mRNA Delivery for Potent Cancer Immunotherapy. Nano Lett. 2017;17(3):1326-1335.

[2]. Hatit MZC, et al. Species-dependent in vivo mRNA delivery and cellular responses to nanoparticles. Nat Nanotechnol. 2022 Mar;17(3):310-318. doi: 10.1038/s41565-021-01030-y. Epub 2022 Feb 7.

[3]. Dong Y, Love KT, Dorkin JR, et al. Lipopeptide nanoparticles for potent and selective siRNA delivery in rodents and nonhuman primates [published correction appears in Proc Natl Acad Sci U S A. 2014 Apr 15;111(15):5753]. Proc Natl Acad Sci U S A. 2014;111(11):3955-3960.

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

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