

## CKK-E12

## Chemical Properties

CAS No. : 1432494-65-9

Formula: C<sub>60</sub>H<sub>120</sub>N<sub>4</sub>O<sub>6</sub>

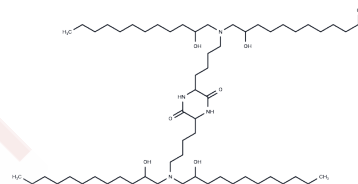
Molecular Weight: 993.62

Storage:

Store at low temperature, Store under nitrogen

Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	CKK-E12 is a selective ionizable lipid that often binds to other lipids to form carrier mRNA lipid nanoparticles. CKK-E12 is used in the study of RNA-related diseases.
Targets(IC50)	DNA/RNA Synthesis, Liposome

## Solubility Information

Solubility	DMSO: 30 mg/mL (30.19 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	1.0064 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
50 mM	0.0201 mL	0.1006 mL	0.2013 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

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.

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

Hatit MZC, et al. Species-dependent in vivo mRNA delivery and cellular responses to nanoparticles. Nat Nanotechnol. 2022 Mar;17(3):310-318.

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