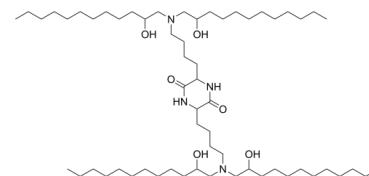


Data Sheet

Product Name:	CKK-E12
Cat. No.:	CS-0149249
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
Solubility:	DMSO : 50 mg/mL (50.32 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

CKK-E12 is a ionizable lipid in combination with other lipids make up the lipid nanoparticles which are used to deliver RNA-based therapeutics. cKK-E12 was highly selective toward liver parenchymal cell in vivo,

References:

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

CAIndexNames:

2,5-Piperazinedione, 3,6-bis[4-[bis(2-hydroxydodecyl)amino]butyl]-

SMILES:

O=C(C(CCCCN(CC(O)CCCCCCCCC)CC(O)CCCCCCCCC)N1)NC(CCCCN(CC(O)CCCCCCCCC)CC(O)CCCCCCCCC)C1=O

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

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