

DC65620 | cKK-E15

Instructions for Use

cKK-E15 is an ionizable cationic lipid and a derivative of cKK-E12 that has been used in the generation of lipid nanoparticles (LNPs).¹ LNPs containing cKK-E15 and encapsulating Cre mRNA induce the expression of Cre in Kupffer cells, endothelial cells, and hepatocytes in Ai14 mice engineered to express the fluorescent protein tdTomato upon translation of Cre.

Product information

CAS No.	Not available
Chemical Name	cKK-E15
Formula	C72H144N4O6
M.Wt	1,161.9
Purity	ELSD-HPLC>95%
Storage	Original product: up to 1 year under the storage conditions stated on the vial, kept tightly sealed. Stock solutions: aliquots at -20°C, generally up to one month.
Shipping condition	Ships from Shanghai. Pure lipid is stable during ice-pack transport.

Formulation & study context

Literature values apply to the cited study only. Administration routes describe research, not clinical instructions.

A complete product-specific formulation has not been verified. No standard ratio is substituted.

N/P ratio	Not reported in the verified record
Cargo	Not available in the verified record
Administration route	Not available in the verified record
Animal model	Not available in the verified record
Formulation process	Not available in the verified record

N/P is a nitrogen-to-phosphate molar ratio. Lipid:cargo mass ratio is a different quantity and must not be used as N/P.

Stock-solution preparation table

Calculated using product-page MW: 1161.9 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	8.607 mL	1.721 mL	0.861 mL
25 mg	21.516 mL	4.303 mL	2.152 mL

Mass	1 mM	5 mM	10 mM
50 mg	43.033 mL	8.607 mL	4.303 mL
100 mg	86.066 mL	17.213 mL	8.607 mL
250 mg	215.165 mL	43.033 mL	21.516 mL

Volume (mL) = mass (mg) × 1000 / [MW (g/mol) × concentration (mM)]. Mathematical conversions only; not measured solubility. Confirm solvent compatibility and the exact material before preparation.

Handling & storage

Provided that storage conditions are as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 1 year.

Wherever possible, prepare and use solutions on the same day. If stock solutions must be prepared in advance, store them as aliquots in tightly sealed vials at -20°C. Generally, these will be usable for up to one month.

Before use, and prior to opening the vial, allow the product to equilibrate to room temperature for at least 1 hour.

References

Not available