

DC60405 | C13-112-tri-tail

Instructions for Use

C13-112-tri-tail is a synthetic ionizable lipid molecule designed for use in lipid nanoparticles (LNPs) for the delivery of anionic substrates, such as nucleic acids (e.g., siRNA, mRNA) and proteins.

Product information

CAS No.	Not available
Chemical Name	C13-112-tri-tail
Formula	C ₄₅ H ₉₄ N ₂ O ₅
M.Wt	743.238275051117
Purity	98%
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: 743.238275051117 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	13.455 mL	2.691 mL	1.345 mL
25 mg	33.637 mL	6.727 mL	3.364 mL
50 mg	67.273 mL	13.455 mL	6.727 mL

Mass	1 mM	5 mM	10 mM
100 mg	134.546 mL	26.909 mL	13.455 mL
250 mg	336.366 mL	67.273 mL	33.637 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