

DC60406 | C13-113-tri-tail

Instructions for Use

C13-113-tri tail is an ionizable lipid molecule containing a polar amino alcohol head group, three hydrophobic carbon-13 tails, and a tertiary amine linker. The lipid can be formulated into a lipid nanoparticle (LNP) to deliver anionic substrates in vitro and in vivo. This includes siRNA to induce gene silencing in a sequence-specific manner, CAS9 mRNA, and cytotoxic proteins. Reagent grade, for research purpose. Please contact us for GMP-grade inquiries.

Product information

CAS No.	Not available
Chemical Name	C13-113-tri-tail
Formula	C44H93N3O3
M.Wt	712.250
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: 712.25 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	14.040 mL	2.808 mL	1.404 mL

Mass	1 mM	5 mM	10 mM
25 mg	35.100 mL	7.020 mL	3.510 mL
50 mg	70.200 mL	14.040 mL	7.020 mL
100 mg	140.400 mL	28.080 mL	14.040 mL
250 mg	351.000 mL	70.200 mL	35.100 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