

DC60488 | CL1H6

Instructions for Use

CL1H6 is an ionizable lipid designed for advanced nucleic acid delivery, and its lipid nanoparticle formulation, CL1H6-LNP, demonstrates exceptional efficiency in delivering both siRNA and mRNA into NK-92 cells. This innovative system enables precise and effective intracellular delivery, making it a valuable tool for enhancing therapeutic and research applications in natural killer cell biology.

Product information

CAS No.	Not available
Chemical Name	CL1H6
Formula	C55H105O5N
M.Wt	860.45
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: 860.45 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	11.622 mL	2.324 mL	1.162 mL
25 mg	29.055 mL	5.811 mL	2.905 mL

Mass	1 mM	5 mM	10 mM
50 mg	58.109 mL	11.622 mL	5.811 mL
100 mg	116.218 mL	23.244 mL	11.622 mL
250 mg	290.546 mL	58.109 mL	29.055 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