

DC60702 | 31hP

Instructions for Use

31hP is an asymmetric A3-lipid for mRNA delivery. 31hP LNP exhibits higher stability and durability compared with MC3 LNP and SM-102 LNP. 31hP LNP achieves more efficient hepatic mRNA delivery with a much higher gene editing efficiency than MC3 LNP and LP01 LNP.

Product information

CAS No.	Not available
Chemical Name	31hP
Formula	C49H86N2O4
M.Wt	767.2
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: 767.2 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	13.034 mL	2.607 mL	1.303 mL
25 mg	32.586 mL	6.517 mL	3.259 mL
50 mg	65.172 mL	13.034 mL	6.517 mL

Mass	1 mM	5 mM	10 mM
100 mg	130.344 mL	26.069 mL	13.034 mL
250 mg	325.860 mL	65.172 mL	32.586 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