

DC67117 | 113-N16B

Instructions for Use

113-N16B is an ionizable cationic lipid used for the generation of lipid nanoparticles (LNPs). 113-N16B delivers mRNA preferentially to pulmonary endothelial cells.

Product information

CAS No.	Not available
Chemical Name	113-N16B
Formula	C73H147N7O4S8
M.Wt	1,443.51
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: 1443.51 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	6.928 mL	1.386 mL	0.693 mL
25 mg	17.319 mL	3.464 mL	1.732 mL
50 mg	34.638 mL	6.928 mL	3.464 mL

Mass	1 mM	5 mM	10 mM
100 mg	69.276 mL	13.855 mL	6.928 mL
250 mg	173.189 mL	34.638 mL	17.319 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