

DC82119 | 113-O16B

Instructions for Use

113-O16B is a disulfide bond-containing ionizable cationic lipidoid. It has been used in the generation of lipid nanoparticles (LNPs) for the delivery of mRNA.

Product information

CAS No.	Not available
Chemical Name	113-O16B
Formula	C73H143N3O8S8
M.Wt	1,447.45183300972
Purity	ELSD-HPLC>95%
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: 1447.45183300972 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	6.909 mL	1.382 mL	0.691 mL
25 mg	17.272 mL	3.454 mL	1.727 mL
50 mg	34.543 mL	6.909 mL	3.454 mL

Mass	1 mM	5 mM	10 mM
100 mg	69.087 mL	13.817 mL	6.909 mL
250 mg	172.717 mL	34.543 mL	17.272 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

Chen, J., Ye, Z., Huang, C., et al. Lipid nanoparticle-mediated lymph node-targeting delivery of mRNA cancer vaccine elicits robust CD8+ T cell response. Proc. Natl. Acad. Sci. USA 119(34), e2207841119 (2022).

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