

DC60471 | Lipid 16

Instructions for Use

Lipid 16 is an ionizable lipid that can be used to synthesize lipid nanoparticles (LNP) for delivering mRNA and other payloads. Lipid 16 as a potent cell type-specific ionizable lipid for the CD11bhi macrophage population without an additional targeting moiety.

Product information

CAS No.	Not available
Chemical Name	Lipid 16
Formula	C41H78N2O4
M.Wt	663.1
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: 663.1 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	15.081 mL	3.016 mL	1.508 mL
25 mg	37.702 mL	7.540 mL	3.770 mL
50 mg	75.403 mL	15.081 mL	7.540 mL

Mass	1 mM	5 mM	10 mM
100 mg	150.807 mL	30.161 mL	15.081 mL
250 mg	377.017 mL	75.403 mL	37.702 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