

DC60605 | Lipid 119-23

Instructions for Use

Lipid 119-23 is an ionizable lipid for mRNA delivery. 119-23 LNP exhibits an enhanced capability to express functional mCre in several categories of immune cells, spanning the liver, spleen and lung.

Product information

CAS No.	Not available
Chemical Name	Lipid 119-23
Formula	C58H105N3O4
M.Wt	908.47
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: 908.47 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	11.008 mL	2.202 mL	1.101 mL
25 mg	27.519 mL	5.504 mL	2.752 mL
50 mg	55.038 mL	11.008 mL	5.504 mL

Mass	1 mM	5 mM	10 mM
100 mg	110.075 mL	22.015 mL	11.008 mL
250 mg	275.188 mL	55.038 mL	27.519 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

Accelerating ionizable lipid discovery for mRNA delivery using machine learning and combinatorial chemistry-Nature Materials volume 23, pages1002-1008 (2024)-Bowen Li,Robert S. Langer & Daniel G. Anderson