

DC71699 | DOIC

Instructions for Use

DOIC is a cationic lipid that can be used for RNA vaccines.

Product information

CAS No.	Not available
Chemical Name	DOIC
Formula	C43H77CIN2O4
M.Wt	721.54
Purity	>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: 721.54 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	13.859 mL	2.772 mL	1.386 mL
25 mg	34.648 mL	6.930 mL	3.465 mL
50 mg	69.296 mL	13.859 mL	6.930 mL
100 mg	138.592 mL	27.718 mL	13.859 mL

Mass	1 mM	5 mM	10 mM
250 mg	346.481 mL	69.296 mL	34.648 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

[1]. WESSELHOEFT A, et, al. Circular rna compositions and methods. WO2021236855A1.