

DC67322 | GL67 pentahydrochloride

Instructions for Use

GL67 (N4-Spermine cholesteryl carbamate) in its pentahydrochloride form is a cationic lipid with versatile applications in the delivery of nucleic acid agents, vaccines, and gene transfection, owing to its efficient encapsulation and transport capabilities. GL67 (N4-Spermine cholesteryl carbamate) in its pentahydrochloride form is a cationic lipid with versatile applications in the delivery of nucleic acid agents, vaccines, and gene transfection, owing to its efficient encapsulation and transport capabilities.

Product information

CAS No.	Not available
Chemical Name	GL67 pentahydrochloride
Formula	C38H75Cl5N4O2
M.Wt	797.29
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: 797.29 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	12.542 mL	2.508 mL	1.254 mL

Mass	1 mM	5 mM	10 mM
25 mg	31.356 mL	6.271 mL	3.136 mL
50 mg	62.712 mL	12.542 mL	6.271 mL
100 mg	125.425 mL	25.085 mL	12.542 mL
250 mg	313.562 mL	62.712 mL	31.356 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