

DC36459 | DMHAPC-Chol

Instructions for Use

DMHAPC-Chol is a cationic cholesterol. Liposomes containing DMHAPC-chol have been used for DNA plasmid delivery in vitro and in vivo in a B16-F10 mouse xenograft model. Liposomes containing DMHAPC-chol are cytotoxic to B16-F10 cells. DMHAPC-Chol, as part of a lipoplex with DOPE, has also been used to deliver DNA into mouse lung via intratracheal injection, resulting in a heterogeneous distribution in the bronchi and bronchioles, and to deliver VEGF siRNA into A431 and MDA-MB-231 cells, which secrete VEGF.

Product information

CAS No.	Not available
Chemical Name	DMHAPC-Chol
Formula	C35H63N2O3
M.Wt	559.9
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: 559.9 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	17.860 mL	3.572 mL	1.786 mL

Mass	1 mM	5 mM	10 mM
25 mg	44.651 mL	8.930 mL	4.465 mL
50 mg	89.302 mL	17.860 mL	8.930 mL
100 mg	178.603 mL	35.721 mL	17.860 mL
250 mg	446.508 mL	89.302 mL	44.651 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