

DC67540 | Lipid A5-CE-C7-6(3 tail)

Instructions for Use

A5-CE-C7-6 (3-tail analog) is a structural control compound derived from the standard 2-tail lipid(A5-CE-C7-6), with three carbonate alkyl chains linked to the A5 amine core.

Product information

CAS No.	Not available
Chemical Name	Lipid A5-CE-C7-6(3 tail)
Formula	C52H102O10N2
M.Wt	915.39
Purity	>95% by ELSD-HPLC
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: 915.39 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	10.924 mL	2.185 mL	1.092 mL
25 mg	27.311 mL	5.462 mL	2.731 mL
50 mg	54.622 mL	10.924 mL	5.462 mL

Mass	1 mM	5 mM	10 mM
100 mg	109.243 mL	21.849 mL	10.924 mL
250 mg	273.108 mL	54.622 mL	27.311 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

Wu S, Shi L, Su K, Lin L, Yan X, Zhang Y, Gu T, Wang Z, Xu T, Liu S. Carbonate-Bearing Ionizable Lipids for mRNA Delivery to Splenic NK Cells. J Am Chem Soc. 2025 Aug 13;147(32):28665-28673.<https://pubs.acs.org/doi/10.1021/jacs.5c01389>