

DC60808 | 50308,12

Instructions for Use

50308,12 is an ionizable lipidoid synthesized via Michael addition, combining a hydrophilic amine headgroup ("503" series) with two hydrophobic branched acrylate tails (C8 and C12 chains, likely with unsaturated bonds). Its design emphasizes organ-specific delivery, exhibiting spleen-tropic targeting in vivo.

Product information

CAS No.	Not available
Chemical Name	50308,12
Formula	C101H200N4O8
M.Wt	1,598.69
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: 1598.69 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	6.255 mL	1.251 mL	0.626 mL
25 mg	15.638 mL	3.128 mL	1.564 mL

Mass	1 mM	5 mM	10 mM
50 mg	31.276 mL	6.255 mL	3.128 mL
100 mg	62.551 mL	12.510 mL	6.255 mL
250 mg	156.378 mL	31.276 mL	15.638 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

Branched-Tail Lipid Nanoparticles for Intravenous mRNA delivery to Lung Immune, Endothelial, and Alveolar Cells in Mice- Mariah L. Arral, and Kathryn A. Whitehead-Science Advane Adv Healthc Mater . 2024 Sep;13(22):e2400225