DC66653 | C9-200

Instructions for Use

C9-200 is an ionizable cationic lipid that has been used in the formation of lipid nanoparticles (LNPs). LNPs containing C9-200 and encapsulating mRNA encoding erythropoietin (EPO) increase serum EPO levels in mice. LNPs containing C9-200 and encapsulating mRNA encoding the Cas9 nuclease and small-guide RNA (sgRNA) targeting transthyretin (TTR) induce 3-fold higher hepatic insertion and deletion (indel) formation than LNPs containing C12-200 and encapsulating mRNA encoding Cas9 in mice.

Product information

CAS No.	Not available
Chemical Name	C9-200
Formula	C55H115N5O5
M.Wt	926.5
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: 926.5 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	10.793 mL	2.159 mL	1.079 mL

Mass	1 mM	5 mM	10 mM
25 mg	26.983 mL	5.397 mL	2.698 mL
50 mg	53.967 mL	10.793 mL	5.397 mL
100 mg	107.933 mL	21.587 mL	10.793 mL
250 mg	269.833 mL	53.967 mL	26.983 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