

DC67133 | C10-200

Instructions for Use

C10-200-based LNPs show enhanced liver tropism for mRNA delivery, outperforming branched-chain lipidoids (e.g., C12-200) in hepatic reporter gene expression. The system's therapeutic potential is confirmed through successful EPO production, with measurable increases in circulating protein levels following administration.

Product information

CAS No.	Not available
Chemical Name	C10-200
Formula	C60H125N5O5
M.Wt	996.67
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: 996.67 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	10.033 mL	2.007 mL	1.003 mL
25 mg	25.084 mL	5.017 mL	2.508 mL

Mass	1 mM	5 mM	10 mM
50 mg	50.167 mL	10.033 mL	5.017 mL
100 mg	100.334 mL	20.067 mL	10.033 mL
250 mg	250.835 mL	50.167 mL	25.084 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