

DC67454 | BCP-NC2-C12

Instructions for Use

BCP-NC2-C12 is an ionizable cationic lipid designed for mRNA delivery, forming LNPs that predominantly localize to hepatic and splenic tissues in vivo. When formulated with CRISPR-Cas9 components (Cas9 mRNA and Pcsk9-targeting sgRNA), these LNPs effectively generate gene-editing indels and significantly lower circulating PCSK9 levels in murine models.

Product information

CAS No.	Not available
Chemical Name	BCP-NC2-C12
Formula	C59H116N4O2
M.Wt	913.6
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: 913.6 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	10.946 mL	2.189 mL	1.095 mL
25 mg	27.364 mL	5.473 mL	2.736 mL

Mass	1 mM	5 mM	10 mM
50 mg	54.729 mL	10.946 mL	5.473 mL
100 mg	109.457 mL	21.891 mL	10.946 mL
250 mg	273.643 mL	54.729 mL	27.364 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