

DC65362 | BP Lipid 114

Instructions for Use

BP Lipid 114 is a well-designed ionizable lipid optimized for mRNA encapsulation and delivery. Its ethanolamine headgroup, ester bonds at the C6 and C8 positions, and 9-carbon tail contribute to efficient mRNA complexation, stability during delivery, and improved biodegradability. These properties make it a valuable component in LNPs for gene therapy and other mRNA-based therapeutic applications.

Product information

CAS No.	Not available
Chemical Name	BP Lipid 114
Formula	C42H83NO5
M.Wt	682.130
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: 682.13 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	14.660 mL	2.932 mL	1.466 mL
25 mg	36.650 mL	7.330 mL	3.665 mL

Mass	1 mM	5 mM	10 mM
50 mg	73.300 mL	14.660 mL	7.330 mL
100 mg	146.600 mL	29.320 mL	14.660 mL
250 mg	366.499 mL	73.300 mL	36.650 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