

DC65626 | C14-SPM

Instructions for Use

C14-SPM is a polyamine branched-chain lipidoid.¹ It has been used in combination with other lipids in the formation of lipid nanoparticles (LNPs) for the delivery of siRNA.

Product information

CAS No.	Not available
Chemical Name	C14-SPM
Formula	C94H194N4O6
M.Wt	1,476.6
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: 1476.6 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	6.772 mL	1.354 mL	0.677 mL
25 mg	16.931 mL	3.386 mL	1.693 mL
50 mg	33.862 mL	6.772 mL	3.386 mL

Mass	1 mM	5 mM	10 mM
100 mg	67.723 mL	13.545 mL	6.772 mL
250 mg	169.308 mL	33.862 mL	16.931 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