

DC49883 | L343

Instructions for Use

L-343 is an ionizable cationic lipidoid and can be used to synthetic liposomes for systemic delivery of RNAi therapeutics, Pka: 6.34.L343, with its sterically hindered tert-butyl esters, exhibited slower elimination from plasma and higher and more persistent levels in liver compared with L319.

Product information

CAS No.	Not available
Chemical Name	L343
Formula	C51H95NO6
M.Wt	818.30
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: 818.3 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	12.220 mL	2.444 mL	1.222 mL
25 mg	30.551 mL	6.110 mL	3.055 mL
50 mg	61.102 mL	12.220 mL	6.110 mL

Mass	1 mM	5 mM	10 mM
100 mg	122.205 mL	24.441 mL	12.220 mL
250 mg	305.511 mL	61.102 mL	30.551 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

[1]. Maier MA, Jayaraman M, Matsuda S, et al. Biodegradable lipids enabling rapidly eliminated lipid nanoparticles for systemic delivery of RNAi therapeutics. Mol Ther. 2013;21(8):1570-1578.