

DC65412 | Acuitas Lipid III-2

Instructions for Use

Acuitas Lipid III-2 is an ionizable amine lipid with two identical ester tails adjacent to C6 position relative to amine from patent:WO2017075531A1 with the similar activity as ALC-0315. The head of lipid is propanolamine which can effectively encapsulate mRNA used in gene therapies which depends on the availability of a safe and efficient delivery vehicle.

Product information

CAS No.	Not available
Chemical Name	Acuitas Lipid III-2
Formula	C47H94N2O4
M.Wt	751.3
Purity	ELSD-HPLC>95%
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: 751.3 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	13.310 mL	2.662 mL	1.331 mL
25 mg	33.276 mL	6.655 mL	3.328 mL

Mass	1 mM	5 mM	10 mM
50 mg	66.551 mL	13.310 mL	6.655 mL
100 mg	133.103 mL	26.621 mL	13.310 mL
250 mg	332.757 mL	66.551 mL	33.276 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