

DC67280 | Lipid 35

Instructions for Use

Lipid 35 is an novel ionizable lipid designed to enhance the delivery of mRNA to specific tissues, particularly the lungs. Lipid 35 demonstrates superior chemical stability, especially in storage conditions. This stability ensures that the lipid maintains its integrity over extended periods, making it ideal for long-term storage and large-scale production. Lipid 35 exhibits high transfection efficiency in various cell types, including nonimmune cells, endothelial cells, and epithelial cells. Lipid 35 has demonstrated excellent biocompatibility and safety in preclinical studies. It does not cause significant liver damage or adverse immune responses, making it a safer alternative for therapeutic applications.

Product information

CAS No.	Not available
Chemical Name	Lipid 35
Formula	C ₅₆ H ₁₁₂ O ₅ N ₄
M.Wt	921.53
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: 921.53 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	10.852 mL	2.170 mL	1.085 mL
25 mg	27.129 mL	5.426 mL	2.713 mL
50 mg	54.258 mL	10.852 mL	5.426 mL
100 mg	108.515 mL	21.703 mL	10.852 mL
250 mg	271.288 mL	54.258 mL	27.129 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