

DC33580 | DODMA

Instructions for Use

DODMA, also known as MBN 305A is a cationic lipid containing the unsaturated long-chain (18:1) oleic acid inserted at both the sn-1 and sn-2 positions. It has been used in the composition of liposomes formulated as stable nucleic acid lipid particles that can encapsulate siRNA or other small molecules to be used for drug delivery

Product information

CAS No.	Not available
Chemical Name	DODMA
Formula	C41H81NO2
M.Wt	620.104
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: 620.104 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	16.126 mL	3.225 mL	1.613 mL
25 mg	40.316 mL	8.063 mL	4.032 mL

Mass	1 mM	5 mM	10 mM
50 mg	80.632 mL	16.126 mL	8.063 mL
100 mg	161.263 mL	32.253 mL	16.126 mL
250 mg	403.158 mL	80.632 mL	40.316 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