

DC33636 | DOTAP

Instructions for Use

DOTAP, also known as 1,2-Dioleoyl-3-trimethylammoniumpropane, is a cationic liposome-forming compound used for transfection of DNA, RNA, and other negatively charged molecules into eukaryotic cells. It has been used in gene delivery vectors for gene ther

Product information

CAS No.	Not available
Chemical Name	DOTAP
Formula	C42H80CINO4
M.Wt	698.555
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: 698.555 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	14.315 mL	2.863 mL	1.432 mL
25 mg	35.788 mL	7.158 mL	3.579 mL
50 mg	71.576 mL	14.315 mL	7.158 mL

Mass	1 mM	5 mM	10 mM
100 mg	143.153 mL	28.631 mL	14.315 mL
250 mg	357.882 mL	71.576 mL	35.788 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