DC60418 | 16:0 TAP

Instructions for Use

16:0 TAP is a cationic derivative of trimethylammonium linked with two 16-carbon fatty acid tails. 16:0 TAP is a cationic liposome-forming compound that may be used for transfection of DNA, RNA, and other negatively charged molecules into eukaryotic cells. Reagent grade, for research use only.

Product information

CAS No.	Not available
Chemical Name	16:0 TAP
Formula	C38H76NO2
M.Wt	579.015552520752
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: 579.015552520752 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	17.271 mL	3.454 mL	1.727 mL
25 mg	43.177 mL	8.635 mL	4.318 mL
50 mg	86.353 mL	17.271 mL	8.635 mL

Mass	1 mM	5 mM	10 mM
100 mg	172.707 mL	34.541 mL	17.271 mL
250 mg	431.767 mL	86.353 mL	43.177 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