DSTAP Chloride

Catalog Number: 14486

INTRODUCTION

DSTAP is a cationic lipid used in the transfection of negatively charged molecules into eukaryotic cells. Several analogues of TAP are available for structure-activity relationship studies.

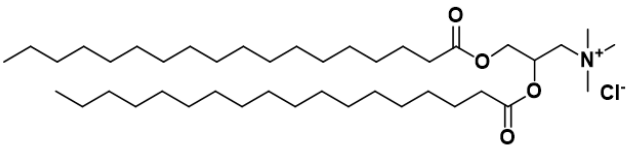
SPECIFICATIONS:

Synonym(s):
1,2-distearoyl-3-trimethylammonium-propane chloride
DSTAP Chloride; DSTAP
Linear Formula: $C_{42}H_{84}NO_4Cl$

CAS Number:	220609-41-6
Purity:	≥ 99%
Molecular Weight:	702.6
Appearance:	white powder
Storage:	-20°C

SAFETY

See Safety Data Sheet



REHYDRATION AND LIPOSOME FORMATION:

1. Add 2 mL filtered H_2O to lipid film
2. Sonicate 5-20 minutes or to clarity
3. Store suspension in glass vial under nitrogen or argon at 4 °C until use, up to 3 months

LIPOSOME SYNTHESIS PROTOCOL

MATERIALS:

- DSTAP Chloride
- Dry Nitrogen or Argon
- Purified H_2O
- Chloroform

EQUIPMENT:

- 5 mL Glass beaker
- Glass round bottom flask
- Rotary evaporator
- Sterile polystyrene storage tube
- Micropipette and tips (100 µl)
- Calibrated scale
- Laminar flow hood with vacuum

PREPARE STOCK SOLUTION:

1. Remove DSTAP from freezer (-20 °C) and thaw to room temperature
2. Weigh 10 mg of DSTAP into glass vial
3. Add 2 mL of chloroform to glass vial; agitate until dissolved
4. (Optional: Store stock solution at -20 °C under nitrogen or argon)

PREPARATION OF LIPID FILM:

1. Place stock solution in round bottom glass and remove solvent using a rotary evaporator
2. Evaporate chloroform with dry nitrogen flow in fume hood
3. Place vial in vacuum pump until lipid film is created (~2-3 hours)

ORDERING INFORMATION

Cat. #	Description
14486	DSTAP Chloride

Visit **Polysciences.com** any time to place an order.

Contact us at info@polysciences.com to learn about our cGMP grade DSTAP Chloride manufactured under 21 CFR part 210, 211.