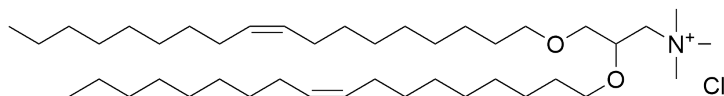


DOTMA Cl Protocol

Catalog Number: 14476

INTRODUCTION

DOTMA is a tetramethylated derivative of DOTA and one of the original cationic lipids used for gene delivery. Its two linear fatty acid chains facilitate its high transfection efficiency in mammalian primary and cell lines and insect cells. DOTMA is typically used with helper lipids like DOPE to form lipid nanoparticles (LNP), nanostructured lipid carriers (NLC), lipoplexes, and other nano lipid drug delivery systems used *in vivo*.



SPECIFICATIONS:

Synonym(s):

N,N,N-trimethyl-2,3-bis[(9Z)-9-octadecen-1-yloxy]-1-propanaminium, chloride

Molecular Formula: $C_{42}H_{84}N_3Cl$

CAS Number:	104162-48-3
Purity:	≥ 98%
Molecular Weight:	670.57
Appearance:	white powder
Storage:	-20°C

PREPARATION:

DOTMA stock solutions can be prepared by dissolving in an organic solvent of choice. DOTMA is soluble in chloroform, ethanol (33 mg/ml), DMSO (0.5 mg/ml), and DMF (5 mg/ml). Once dissolved, the mixture can be stored at -20°C for up to 1 month.

ORDERING INFORMATION

Cat. #	Description
14476	DOTMA Chloride

Visit [Polysciences.com](https://www.polysciences.com) any time to place an order.

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