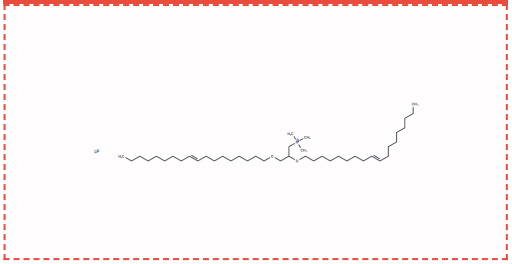
DOTMA

Cat. No.: **SN-M-LM902**

Chemical Properties

Product Name	DOTMA
Full Name	2,3-bis[(E)-octadec-9-enoxy]propyl-trimethylazanium chloride
Cat. No.	SN-M-LM902
CAS No.	104872-42-6
Molecular Formula	C42H84ClNO2
Molecular Weight	670.58
Appearance	Solid
Storage	Keep away from direct sunlight,Keep away from moisture,
Shipping	Shipping with blue ice/Shipping at ambient temperature.
Solubility	DMSO: 45 mg/mL (67.11 mM), Sonication and heating to 60℃ are recommended. | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (2.98 mM), Sonication is recommended.
Purity	98+%

Structure



Biological Description

DOTMA (N-(1-(2,3-dioleyloxy)propyl)-N,N,N-trimethylammonium) is a tetra-methylated DOTA analogue. DOTMA is a cationic lipid and can be used as a non-viral vector for gene therapy. It has been used as a component in liposomes that can be used to encapsulate siRNA, microRNAs, and oligonucleotides and for gene transfection in vitro. It exhibits effective in vitro and in vivo gene transfection. DOTMA induces a positive charge on the liposomes and thus promotes efficient liposome- cell membrane interaction.

Related Products / Keywords

- DOTMA
- Cationic Lipid

This product is a research reagent and must not be used for clinical validation or human therapeutic use.