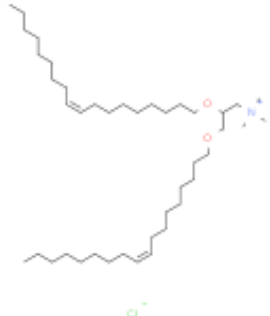


Product Data Sheet

Cas No.:	104872-42-6	Cat. No:	PL06719
Product Name:	DOTMA		
Product synonym:	-		
Chemical name:	DOTMA		
MF:	C42H84CLNO2	FW:	670.574872970581
Purity:	≥98%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	[Cl-].O(CCCCCCCC/C=C\CCCCCCCC)C(COCCCCCCCC/C=C\CCCCCCCC)C[N+](C)(C)C		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

DOTMA 作为 tetra-methylated DOTA 类似物，是一种阳离子脂类，被用作基因治疗的非病毒载体。它已被用作脂质体的成分，可用于封装 siRNA、microRNA 和寡核苷酸，并用于体外基因转染。在体外和体内均表现出良好的基因转染效果。DOTMA 诱导脂质体上的正电荷，从而促进脂质体与细胞膜的有效相互作用。

生物活性	DOTMA, as a tetra-methylated DOTA analogue, 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.
包装储存	-20°C, sealed storage, away from moistur In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)
溶解度数据	In Vitro: DMSO : 12.5 mg/mL (18.64 mM; ultrasonic and warming and heat to 60°C)配制储备液