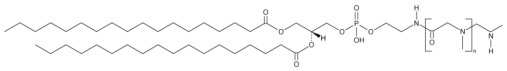
Product Data Sheet

Product Name: DSPE-Polysarcosine66
Cat. No.: GC92070

Chemical Properties

Cas. No.			
Chemical Name	(2R)-3-((hydroxy(2-(2-(methyl((methylamino)methyl)amino)acetamido)ethoxy)phosphoryl)oxy)propane-1,2-diyl distearate		
SMILES	CCCCCCCCCCCCCCCCCC(OC[C@@](COP(O)(OCCNC(CN(C)CNC)=O)=O)([H])OC(CCCCCCCCCCCCCCCCC)=O)=O		
Formula	$(C_3H_5NO)nC_{43}H_{87}N_2O_8P$	M.Wt	862.2
Solubility	Chloroform: Soluble	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

DSPE-polysarcosine66 is an amine-functionalized hydrophilic polymer. It is a polysarcosine-labeled form of 1,2-distearoyl-*rac*-glycero-3-phosphoethanolamine (DSPE). Polysarcosines have been used as alternatives to PEGylation in lipid nanoparticles (LNPs) and to reduce the immunogenicity of administered proteins *in vivo*.[1,2]

References:

[1]. Nogueira, S.S., Schlegel, A., Maxeiner, K., et al.Polysarcosine-functionalized lipid nanoparticles for therapeutic mRNA deliveryACS Appl. Nano Mater.3(11)10634-10645(2020).
[2]. Hu, Y., Hou, Y., Wang, H., et al.Polysarcosine as an alternative to PEG for therapeutic protein conjugationBioconjug. Chem.29(7)2232-2238(2018).

Caution: Product has not been fully validated for medical applications. For research use only.
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