

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

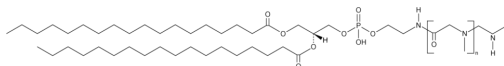
SMILES CCCCCCCCCCCCCCCCCCCC(OC[C@@](COP(O)(OCCNC(CN(C)CNC)=O)=O)([H])OC(CCCCCCCCCCCCCCCCCC)=O)=O

Formula $(C_3H_5NO)_n C_{43}H_{87}N_2O_8P$ M.Wt 862.2

Solubility Chloroform: Soluble Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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 delivery ACS 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 conjugation Bioconj. Chem. 29(7)2232-2238(2018).

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA