



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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# PRODUCT INFORMATION



## DSPE-Polysarcosine66

Item No. 39052

**Formal Name:** (2R)-3-((hydroxy(2-(2-(methyl((methylamino)methyl)amino)acetamido)ethoxy)phosphoryl)oxy)propane-1,2-diyl distearate

**Synonyms:** 1,2-Dioctadecanoyl-*rac*-glycero-3-Phosphoethanolamine-Polysarcosine66, 1,2-Distearoyl-*rac*-glycero-3-PE Polysarcosine66, 1,2-Distearoyl-*rac*-glycero-3-Phosphatidylethanolamine-Polysarcosine66, 1,2-Distearoyl-*rac*-glycero-3-Phosphoethanolamine-Polysarcosine66, 1,2-DPSE-Polysarcosine66, DSPE-pSar<sub>66</sub>, 18:0/18:0-PE-Polysarcosine66, PE(18:0/18:0)-Polysarcosine66

**MF:** (C<sub>3</sub>H<sub>5</sub>NO)<sub>n</sub>C<sub>43</sub>H<sub>87</sub>N<sub>2</sub>O<sub>8</sub>P

**FW:** 862.2

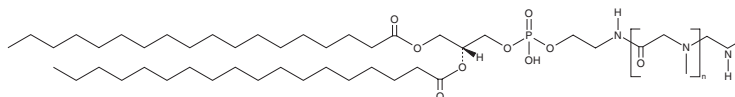
**Purity:** ≥95%

**Supplied as:** A solution in methanol

**Storage:** -20°C

**Stability:** ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



### Laboratory Procedures

DSPE-Polysarcosine66 is supplied as a solution in methanol. To change the solvent, simply evaporate the DSPE-Polysarcosine66 under a gentle stream of nitrogen and immediately add the solvent of choice. DSPE-Polysarcosine66 is soluble in chloroform.

### Description

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*.<sup>1,2</sup>

### 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. *Bioconjug. Chem.* **29**(7), 2232-2238 (2018).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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