



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# PRODUCT INFORMATION

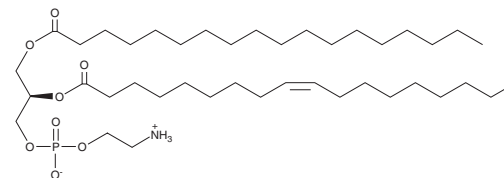


## 1-Stearoyl-2-Oleoyl-*sn*-glycero-3-PE

Item No. 38153

**CAS Registry No.:** 6418-95-7  
**Formal Name:** 9Z-octadecenoic acid, 1R-[[[(2-aminoethoxy)hydroxyphosphinyl]oxy]methyl]-2-[(1-oxooctadecyl)oxy]ethyl ester

**Synonyms:** 1-Octadecanoyl-2-(9Z)-Octadecenoyl-*sn*-glycero-3-Phosphatidylethanolamine, 1-Octadecanoyl-2-(9Z)-Octadecenoyl-*sn*-glycero-3-Phosphoethanolamine, 18:0-18:1 PE, PE(18:0/18:1), 1-Stearoyl-2-Oleoyl-*sn*-glycero-3-Phosphoethanolamine, 1,2-SOPE



**MF:** C<sub>41</sub>H<sub>80</sub>NO<sub>8</sub>P  
**FW:** 746.1  
**Purity:** ≥95%  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years

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

### Laboratory Procedures

1-Stearoyl-2-oleoyl-*sn*-glycero-3-PE is supplied as a crystalline solid. A stock solution may be made by dissolving the 1-stearoyl-2-oleoyl-*sn*-glycero-3-PE in the solvent of choice, which should be purged with an inert gas. 1-Stearoyl-2-oleoyl-*sn*-glycero-3-PE is soluble in the organic solvent ethanol at a concentration of approximately 30 mg/ml.

### Description

1-Stearoyl-2-oleoyl-*sn*-glycero-3-PE is a phospholipid that contains stearic acid (Item No. 10011298) and oleic acid (Item Nos. 90260 | 24659) at the *sn*-1 and *sn*-2 positions, respectively. It has been used in the generation of lipid nanoparticles (LNPs) for *in vitro* delivery of mRNA or nuclear-targeted plasmid DNA.<sup>1,2</sup>

### References

1. Álvarez-Benedicto, E., Farbiak, L., Ramírez, M.M., *et al.* Optimization of phospholipid chemistry for improved lipid nanoparticle (LNP) delivery of messenger RNA (mRNA). *Biomater. Sci.* **10**(2), 549-559 (2022).
2. Tanaka, H., Akita, H., Ishiba, R., *et al.* Neutral biodegradable lipid-envelope-type nanoparticle using vitamin A-Scaffold for nuclear targeting of plasmid DNA. *Biomaterials* **35**(5), 1755-1761 (2014).

#### 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.

#### WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 03/27/2023

#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897  
[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM