



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Laborgeräte & Service

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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## 1-Palmitoyl-d<sub>9</sub>-2-Palmitoyl-*sn*-glycero-3-PS

Item No. 28152

**Formal Name:** O-(((R)-3-((hexadecanoyl-13,13,14,14,15,15,16,16,16-d<sub>9</sub>)oxy)-2-(palmitoyloxy)propoxy)(hydroxy)phosphoryl)-L-serine

**Synonyms:** 1-Hexadecanoyl-d<sub>9</sub>-2-Hexadecanoyl-*sn*-glycero-3-Phosphatidylserine, 1-Hexadecanoyl-d<sub>9</sub>-2-Hexadecanoyl-*sn*-glycero-3-Phosphoserine, PS(16:0-d<sub>9</sub>/16:0), 16:0-d<sub>9</sub>/16:0-PS

**MF:** C<sub>38</sub>H<sub>65</sub>D<sub>9</sub>NO<sub>10</sub>P

**FW:** 745.0

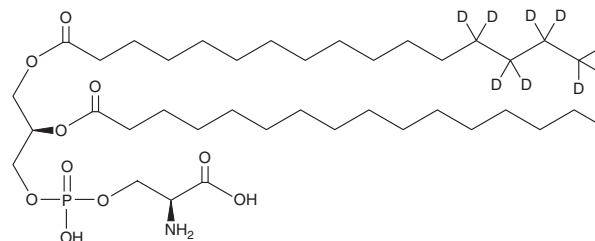
**Chemical Purity:** ≥97% (1,2-Dipalmitoyl-*sn*-glycero-3-PS)

**Deuterium Incorporation:** ≥99% deuterated forms (d<sub>1</sub>-d<sub>9</sub>); ≤1% d<sub>0</sub>

**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-Palmitoyl-d<sub>9</sub>-2-palmitoyl-*sn*-glycero-3-PS is intended for use as an internal standard for the quantification of 1,2-dipalmitoyl-*sn*-glycero-3-PS (Item No. 15088) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

1-Palmitoyl-d<sub>9</sub>-2-palmitoyl-*sn*-glycero-3-PS is supplied as a crystalline solid. A stock solution may be made by dissolving the 1-palmitoyl-d<sub>9</sub>-2-palmitoyl-*sn*-glycero-3-PS in the solvent of choice, which should be purged with an inert gas. 1-Palmitoyl-d<sub>9</sub>-2-palmitoyl-*sn*-glycero-3-PS is soluble in the organic solvent chloroform.

### Description

1,2-Dipalmitoyl-*sn*-glycero-3-PS is a form of phosphatidylserine that contains the abundant long-chain (16:0) palmitic acid inserted at the *sn*-1 and *sn*-2 positions. It is commonly used in the generation of liposomes and other types of artificial membranes.<sup>1,2</sup>

### References

1. Shen, H.H., Crowston, J.G., Huber, F., *et al.* The influence of dipalmitoyl phosphatidylserine on phase behaviour of and cellular response to lyotropic liquid crystalline dispersions. *Biomaterials* **31**(36), 9473-9481 (2010).
2. Marr, J.M., Li, F., Petlick, A.R., *et al.* The role of lateral tension in calcium induced DPPS vesicle rupture. *Langmuir* **28**(32), 11874-11880 (2012).

#### 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.

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