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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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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

www.szabo-scandic.com

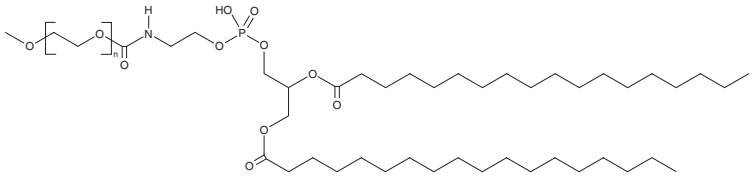
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

DSPE-MPEG(5000)

Item No. 34652

CAS Registry No.: 147867-65-0
Formal Name: α-[6-hydroxy-6-oxido-1,12-dioxo-9-[(1-oxooctadecyl)oxy]-5,7,11-trioxa-2-aza-6-phosphanonacos-1-yl]-ω-methoxy-poly(oxy-1,2-ethanediyl)
Synonyms: 1,2-DSPE-MPEG(5000), Methyl-PEG2000-DSPE, MPEG-2000-DSPE
MF: $(C_2H_4O)_nC_{43}H_{84}NO_{10}P$
Purity: ≥85%
Supplied as: A solid
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-MPEG(5000) is supplied as a solid. A stock solution may be made by dissolving the DSPE-MPEG(5000) in the solvent of choice, which should be purged with an inert gas. DSPE-MPEG(5000) is soluble in the organic solvent ethanol at a concentration of approximately 3 mg/ml.

Description

DSPE-MPEG(5000) is a PEGylated form of 1,2-distearoyl-*rac*-glycero-3-PE (DSPE). It has been used in the synthesis of lipid nanoparticles (LNPs) and liposomes for *in vitro* and *in vivo* two-photon bioimaging.[1,2]

References

1. Wang, D., Qian, J., Qin, W., *et al.* Biocompatible and photostable AIE dots with red emission for *in vivo* two-photon bioimaging. *Sci. Rep.* **4**, 4279 (2014).
2. Zhan, Q., Qian, J., Liang, H., *et al.* Using 915 nm laser excited $Tm^{3+}/Er^{3+}/Ho^{3+}$-doped NaYbF4 upconversion nanoparticles for *in vitro* and deeper *in vivo* bioimaging without overheating irradiation. *ACS Nano* **5(5)**, 3744-3757 (2011).

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