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Produktinformation



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Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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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

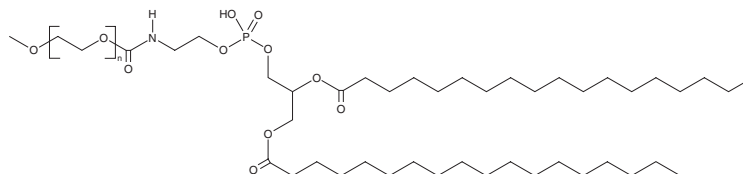
MF: $(C_2H_4O)_n C_{43}H_{84}NO_{10}P$

Purity: $\geq 85\%$

Supplied as: A solid

Storage: $-20^\circ C$

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).

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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