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Produktinformation

- Forschungsprodukte & Biochemikalien
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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

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PRODUCT INFORMATION

DSPE-PEG(2000)-NHS

Item No. 37275

Formal Name: (2R)-3-((((14-((2,5-dioxopyrrolidin-1-yl)oxy)-4,14-dioxo-5,8,11-trioxa-3-azatetradecyl)oxy)(hydroxy)phosphoryl)oxy)propane-1,2-diyl distearate

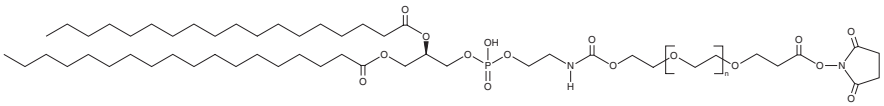
MF: $(C_2H_4O)_nC_{51}H_{93}N_2O_{15}P$

Purity: ≥≥90% (mixture of isomers)

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-PEG(2000)-NHS is supplied as a solid. A stock solution may be made by dissolving the DSPE-PEG(2000)-NHS in the solvent of choice, which should be purged with an inert gas. DSPE-PEG(2000)-NHS is soluble in the organic solvent ethanol at a concentration of approximately 5 mg/ml.

Description

DSPE-PEG(2000)-NHS is a PEGylated derivative of 1,2-distearoyl-sn-glycero-3-PE (DSPE; Item No. 15095).[1] It has been used in the generation of micelles and in combination with other lipids in the formation of liposomes. DSPE-PEG(2000)-NHS-containing liposomes localize to the liver and tumor after intravenous administration in mice. Liposomes containing DSPE-PEG(2000)-NHS conjugated to the breast cancer targeting H6 peptide and encapsulating the DNA topoisomerase inhibitor doxorubicin (Item No. 15007) reduce tumor growth in an SK-BR-3 breast cancer mouse xenograft model.

Reference

1. Jia, X., Wang, W., Han, Q., *et al.* Micromixer based preparation of functionalized liposomes and targeting drug delivery. *ACS Med. Chem. Lett.* **7(4)**, 429-434 (2016).

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