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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

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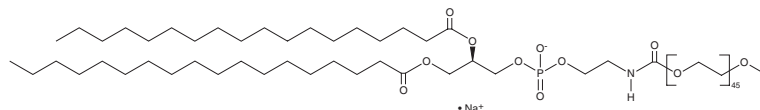
PRODUCT INFORMATION



PEG(2000)-DSPE

Item No. 37148

Formal Name: (R)-2,3-bis(stearoyloxy)propyl (138-oxo-2,5,8,11,14,17,20,23,26,29,32,35,38,41,44,47,50,53,56,59,62,65,68,71,77,80,83,86,89,92,95,98,101,104,107,110,113,116,119,122,125,128,131,134,137-hexatetracontaoxa-139-azahentetracontahectan-141-yl)



Synonyms: PEG(2000)-1,2-DSPE, PEG₂₀₀₀-DSPE, Polyethylene Glycol-2000-1,2-Distearoyl-*sn*-glycero-3-PE, Polyethylene Glycol-2000-1,2-Distearoyl-*sn*-glycero-3-Phosphoethanolamine, Polyethylene Glycol-2000-1,2-Distearoyl-*sn*-glycero-3-Phosphatidylethanolamine

MF: C₁₃₃H₂₆₃NO₅₅P • Na

FW: 2,787.5

Purity: ≥95%

Supplied as: A 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

PEG(2000)-DSPE is supplied as a solid. A stock solution may be made by dissolving the PEG(2000)-DSPE in the solvent of choice, which should be purged with an inert gas. PEG(2000)-DSPE is slightly soluble in dimethyl formamide and water.

Description

PEG(2000)-DSPE is a PEGylated form 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. Liposomes containing PEG(2000)-DSPE and encapsulating the DNA topoisomerase inhibitor doxorubicin (Item No. 15007) and the flavonoid quercetin (Item No. 10005169) reduce tumor growth in an MCF-7/adr multidrug-resistant breast cancer mouse xenograft model.

Reference

1. Zhang, J., Luo, Y., Zhao, X., *et al.* Co-delivery of doxorubicin and the traditional Chinese medicine quercetin using biotin-PEG₂₀₀₀-DSPE modified liposomes for the treatment of multidrug resistant breast cancer. *RSC Adv.* **6(114)**, 113173–113184 (2016).

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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