SZABO SCANDIC

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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

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

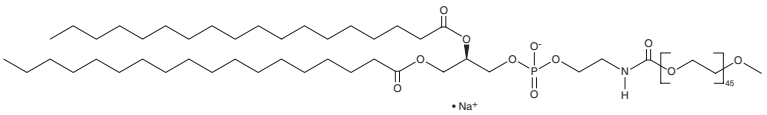
www.szabo-scandic.com

linkedin.com/company/szaboscandic

PRODUCT INFORMATION

PEG(2000)-DSPE

Item No. 37148



Formal Name: (R)-2,3-*bis*(staroyloxy)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-azahentetetracontahectan-141-yl) phosphate, monosodium salt

Synonyms: PEG(2000)-1,2-DSPE, PEG_{2000}-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: $C_{133}H_{263}NO_{55}P \bullet Na$

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–PEG_{2000}–DSPE modified liposomes for the treatment of multidrug resistant breast cancer. *RSC Adv.* **6(114)**, 113173–113184 (2016).

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