



# SZABO SCANDIC

Part of Europa Biosite

## 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# PRODUCT INFORMATION



## DSG-PEG(2000)

Item No. 37800

CAS Registry No.: 308805-39-2

Formal Name:  $\alpha$ -[2,3-bis[(1-oxooctadecyl)oxy]propyl]- $\omega$ -methoxy-poly(oxy-1,2-ethanediyl)

Synonym: 1,2-Distearoyl-*rac*-glycero-3-methylpolyoxyethylene

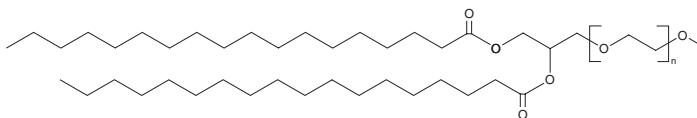
MF:  $(C_2H_4O)_n C_{40}H_{78}O_5$

Purity:  $\geq 95\%$

Supplied as: A solid

Storage:  $-20^\circ\text{C}$

Stability:  $\geq 4$  years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

DSG-PEG(2000) is supplied as a solid. A stock solution may be made by dissolving the DSG-PEG(2000) in the solvent of choice, which should be purged with an inert gas. DSG-PEG(2000) is soluble in the organic solvent chloroform at a concentration of approximately 30 mg/ml.

### Description

DSG-PEG(2000) is a PEGylated derivative of 1,2-distearoyl-*sn*-glycerol (DSG; Item No. 15079).<sup>1</sup> It has been used in combination with other lipids in the formation of lipid nanoparticles (LNPs). LNPs containing DSG-PEG(2000) and encapsulating a toll-like receptor 7 (TLR7) and TLR8 agonist and a peptide antigen each conjugated to poly(L-glutamic acid) (PGA) increase the activation of dendritic cells, macrophages, and B cells in the draining lymph node and dendritic cells and B cells in the spleen in mice compared to the non-LNP-encapsulated PGA-conjugated TLR7/8 agonist and peptide antigen.

### Reference

1. Van Lysebetten, D., Malfanti, A., Deswarte, K., *et al.* Lipid-polyglutamate nanoparticle vaccine platform. *ACS Appl. Mater. Interfaces* **13**(5), 6011-6022 (2021).

#### 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.

#### WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 05/26/2023

#### 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