



# 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) 

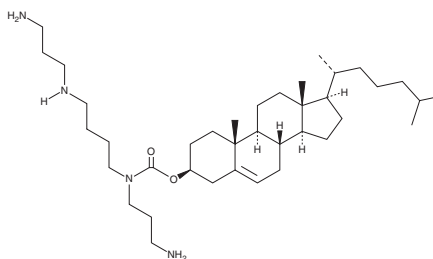
# PRODUCT INFORMATION



## GL67

Item No. 34371

**CAS Registry No.:** 179075-30-0  
**Formal Name:** 3β-[(3-aminopropyl) [4-[(3-aminopropyl)amino]butyl] carbamate] cholest-5-en-3-ol  
**Synonym:** N<sup>4</sup>-Spermine Cholesteryl Carbamate  
**MF:** C<sub>38</sub>H<sub>70</sub>N<sub>4</sub>O<sub>2</sub>  
**FW:** 615.0  
**Purity:** ≥95%  
**Supplied as:** A crystalline 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

GL67 is supplied as a crystalline solid. A stock solution may be made by dissolving the GL67 in the solvent of choice, which should be purged with an inert gas. GL67 is soluble in the organic solvent ethanol at a concentration of approximately 10 mg/ml.

### Description

GL67 is a multivalent ionizable cationic lipid composed of spermine (Item No. 18041) conjugated to cholesterol (Item No. 9003100).<sup>1</sup> It has been used in the generation of liposomes complexed with plasmid DNA for use *in vitro* and *in vivo*. GL67 has also been used in combination with DC-Chol (Item No. 16943) and 1,2-dioleoyl-*sn*-glycero-3-PE (1,2-DOPE; Item No. 15091) in the generation of lipid nanocarriers for the delivery of siRNA to A549 lung cancer cells.<sup>2</sup> GL67-containing liposomes, in complex with plasmid DNA for the gene encoding cystic fibrosis transmembrane conductance regulator (CFTR), leads to the expression of functional wild-type CFTR in HEK293 cells.<sup>3</sup> Aerosol administration of GL67-containing liposomes, in complex with plasmid DNA for the gene encoding CFTR, increases trachea and whole lung mRNA levels of CFTR.

### References

1. Andries, O., De Filette, M., Rejman, J., *et al.* Comparison of the gene transfer efficiency of mRNA/GL67 and pDNA/GL67 complexes in respiratory cells. *Mol. Pharm.* **9(8)**, 2136-2145 (2012).
2. Jarallah, S.J., Aldossary, A.M., Tawfik, E.A., *et al.* GL67 lipid-based liposomal formulation for efficient siRNA delivery into human lung cancer cells. *Saudi Pharm. J.* **31(7)**, 1139-1148 (2023).
2. Hyde, S.C., Pringle, I.A., Abdullah, S., *et al.* CpG-free plasmids confer reduced inflammation and sustained pulmonary gene expression. *Nat. Biotechnol.* **26(5)**, 549-551 (2008).

#### 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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#### 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