



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

www.szabo-scandic.com

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

PRODUCT INFORMATION



Phosphatidylglycerol (egg) (sodium salt)

Item No. 25846

CAS Registry No.: 383907-64-0

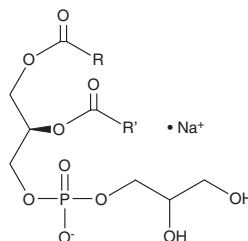
Synonyms: PGs (egg),
L- α -Phosphatidylglycerols (egg)

Purity: $\geq 98\%$

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

Phosphatidylglycerol (egg) (sodium salt) is supplied as a solid. A stock solution may be made by dissolving the phosphatidylglycerol (egg) (sodium salt) in the solvent of choice, which should be purged with an inert gas. Phosphatidylglycerol (egg) (sodium salt) is soluble in the organic solvent chloroform at a concentration of approximately 2 mg/ml.

Description

Phosphatidylglycerol is a naturally occurring anionic phospholipid and a constituent of plant, animal, and bacterial cell membranes.^{1,2} It is less abundant than phosphatidylethanolamine (Item Nos. 16878 | 24332) in prokaryotes and eukaryotes and phosphatidylcholine (Item Nos. 24343 | 24370) in eukaryotes. It is formed via a reaction between CDP-diglyceride with L- α -glycerol 3-phosphate followed by dephosphorylation and is a metabolic precursor of cardiolipin.¹ Phosphatidylglycerol species containing polyunsaturated and monounsaturated fatty acyl chains inhibit and promote proliferation of murine keratinocytes, respectively.³ Phosphatidylglycerol is the second largest lipid component of mammalian lung surfactant, comprising 10% of the lipids, and levels are decreased in the lung surfactant of infants with respiratory distress syndrome.² This product contains phosphatidylglycerol molecular species with variable fatty acyl chain lengths at the *sn*-1 and *sn*-2 positions.

References

1. Ohtsuka, T., Nishijima, M., and Akamatsu, Y. A somatic cell mutant defective in phosphatidylglycerophosphate synthase, with impaired phosphatidylglycerol and cardiolipin biosynthesis. *J. Biol. Chem.* **268**(30), 22908-22913 (1993).
2. Furse, S. Is phosphatidylglycerol essential for terrestrial life? *J. Chem. Biol.* **10**(1), 1-9 (2016).
3. Xie, D., Seremwe, M., Edwards, J.G., et al. Distinct effects of different phosphatidylglycerol species on mouse keratinocyte proliferation. *PLoS One* **9**(9), e107119 (2014).

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, 01/16/2023

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