

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
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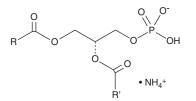
PRODUCT INFORMATION



Phosphatidic Acids (egg) (ammonium salt)

Item No. 24344

MF:	$C_{39}H_{72}O_8P \bullet NH_4$ (for oleoyl)
FW:	718.0
Purity:	≥98%
Supplied as:	A solution in chloroform
Storage:	-20°C
Stability:	≥2 years
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Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Phosphatidic Acids (egg) (ammonium salt) is supplied as a solution in chloroform. To change the solvent, simply evaporate the chloroform under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ether purged with an inert gas can be used.

Description

Phosphatidic acid is a phospholipid and an intermediate in glycerolipid biosynthesis.¹ It is a transient intermediate in the synthesis of various phospholipid species that is synthesized de novo in cells via multiple routes, including the glycerol-3 phosphate and dihydroxyacetone phosphate pathways, enzymatic conversion of phosphatidylcholine by phospholipase D, and acetylation of lysophosphatidic acid by lysoPA-acyltransferase, among others.^{2,3} It has roles in shaping cellular membranes, cellular signaling, vesicle fission and fusion, as well as mitochondrial division and fusion. It stimulates respiratory burst in neutrophils independent of diacylglycerol and activates monoacylglycerol acyltransferase, phospholipase C (PLC), Ras, and phosphatidylinositol 4-phosphate (PIP4) kinase in several cell lines. Phosphatidic acids (egg) is a mixture of phosphatidic acids isolated from chicken egg with fatty acids of variable chain lengths.

References

- 1. Athenstaedt, K. and Daum, G. Phosphatidic acid, a key intermediate in lipid metabolism. Eur. J. Biochem. 266(1), 1-16 (1999).
- 2. Járai, Z., Wagner, J.A., Goparaju, S.K., et al. Cardiovascular effects of 2-arachidonoyl glycerol in anesthetized mice. Hypertension 35(2), 679-684 (2000).
- Kameoka, S., Adachi, Y., Okamoto, K., et al. Phosphatidic acid and cardiolipin coordinate mitochondrial 3. dynamics. Trends Cell Biol. 28(1), 67-76 (2018).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFFTY 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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