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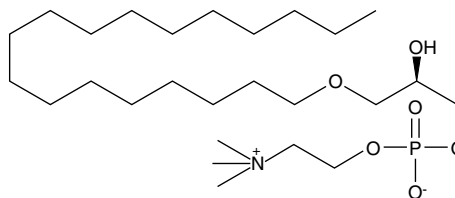
Product Information



Lyso-PAF C-18

Item No. 60916

CAS Registry No: 74430-89-0
Formal Name: 1-O-octadecyl-*sn*-glyceryl-3-phosphorylcholine
MF: C₂₆H₅₆NO₆P
FW: 509.7
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A lyophilized powder
Misc: Hygroscopic



Laboratory Procedures

Lyso-PAF C-18 is lysophospholipid which induces PAF biosynthesis. For long term storage, we suggest that lyso-PAF C-18 be stored as supplied at -20°C, preferably in a dessicator. It will be stable for at least one year.

Lyso-PAF C-18 is supplied as a lyophilized powder. Prior to performing biological experiments, the lyophilized powder should be reconstituted in the buffer of choice. Lyso-PAF C-18 is soluble in PBS (pH 7.2) at a concentration of approximately 4.5 mg/ml. The buffer should not contain albumin as the presence of albumin will greatly decrease the amount of PAF produced from lyso-PAF C-18. Sonicate until a clear solution is obtained. Store aqueous solutions of lyso-PAF C-18 on ice and use within 12 hours. We recommend making a fresh preparation each day.

Lyso-PAF C-18 can be formed by either the action of PAF-AH on PAF C-18 or by the action of a CoA-independent transacylase on 1-O-octadecyl-2-acyl-glycerophosphocholine.¹⁻³ Lyso PAF C-18 is a substrate for either PAF C-18 formation by the remodeling pathway or selective acylation with arachidonic acid by a CoA-independent transacylase.^{4,5}

References

1. Stafforini, D.M., Prescott, S.M., and McIntyre, T.M. Human plasma platelet-activating factor acetylhydrolase. *J. Biol. Chem.* **262**, 4223-4230 (1987).
2. Uemura, Y., Lee, T., and Snyder, F. A coenzyme A-independent transacylase is linked to the formation of platelet-activating factor (PAF) by generating the lyso-PAF intermediate in the remodeling pathway. *J. Biol. Chem.* **266**, 8268-8272 (1991).
3. Venable, M.E., Nieto, M.L., Schmitt, J.D., *et al.* Conversion of 1-O-[3H]alkyl-2-arachidonoyl-*sn*-glycero-3-phosphorylcholine to lyso platelet-activating factor by the CoA-independent transacylase in membrane fractions of human neutrophils. *J. Biol. Chem.* **266**, 18691-18698 (1991).
4. Prescott, S.M., Zimmerman, G.A., and McIntyre, T.M. Platelet-activating factor. *J. Biol. Chem.* **265**, 17381-17384 (1990).
5. Venable, M.E., Olson, S.C., Nieto, M.L., *et al.* Enzymatic studies of lyso platelet-activation factor acylation in human neutrophils and changes upon stimulation. *J. Biol. Chem.* **268**, 7965-7975 (1993).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/60916

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been *via* email to your institution.

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