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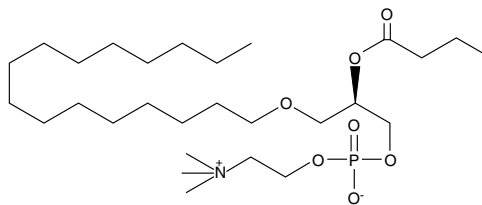
Product Information



Butanoyl PAF

Item No. 60928

CAS Registry No.: 85405-03-4
Formal Name: 1-O-hexadecyl-2-O-butanoyl-*sn*-glyceryl-3-phosphocholine
MF: C₂₈H₅₈NO₇P
FW: 551.7
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that butanoyl PAF be stored as supplied at -20°C. It will be stable for at least one year.

Butanoyl PAF is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of butanoyl PAF in these solvents is approximately 12 mg/ml. Butanoyl PAF is stable for at least six months in these solvents if stored at -20°C.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of butanoyl PAF is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of butanoyl PAF in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Oxidized low-density lipoprotein (oxLDL) particles contain low molecular weight species which promote the differentiation of monocytes and activate polymorphonuclear leukocytes.¹ One of these substances was recently isolated and purified from oxLDL, and identified as azelaoyl PC.² Butanoyl PAF is a closely related compound which retains at least 10% of the agonist potency of platelet-activating factor (PAF) itself.³ Further, butanoyl PAF is present in oxLDL in amounts more than 100 times greater than enzymatically generated PAF. Butanoyl PAF is therefore one of the important signaling molecules present in oxLDL.

References

1. Tontonoz, P., Nagy, L., Alvarez, J.G.A., *et al.* PPAR γ promotes monocyte/macrophage differentiation and uptake of oxidized LDL. *Cell* **93**, 241-252 (1998).
2. Davies, S.S., Pontsler, A.V., Marathe, G.K., *et al.* Oxidized alkyl phospholipids are specific, high affinity peroxisome proliferator-activated receptor γ ligands and agonists. *J. Biol. Chem.* **276**, 16015-16023 (2001).
3. Marathe, G.K., Davies, S.S., Harrison, K.A., *et al.* Inflammatory platelet-activating factor-like phospholipids in oxidized low density lipoproteins are fragmented alkyl phosphatidylcholines. *J. Biol. Chem.* **274**, 28395-28404 (1999).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/60928

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 sent *via* email to your institution.

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