

Product Information



Azelaoyl PAF

Item No. 60924

CAS Registry No.: 354583-69-0

Formal Name: 1-O-hexadecyl-2-O-(9-carboxyoctanoyl)-
sn-glyceryl-3-phosphocholine

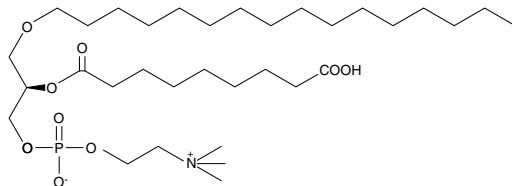
MF: C₃₃H₆₆NO₉P

FW: 651.9

Purity: ≥98%

Stability: ≥1 year at -20°C

Supplied as: A solution in ethanol



Laboratory Procedures

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

Azelaoyl 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 azelaoyl PAF in these solvents is approximately 8 and 33 mg/ml, respectively.

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 azelaoyl PAF is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of azelaoyl PAF in PBS (pH 7.2) is approximately 10 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 *via* PPAR γ .¹ One of these substances was recently isolated and purified from oxLDL, and identified as azelaoyl PAF.² Azelaoyl PAF is a potent PPAR γ agonist which competes for the thiazoladinedione binding site. Azelaoyl PAF is more potent than 15-deoxy- $\Delta^{12,14}$ -prostaglandin J₂, and equipotent with rosiglitazone as a ligand for this receptor.²

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).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/60924

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

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 Safety Data Sheet, which has been sent *via* email to your institution.

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Cayman Chemical

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com