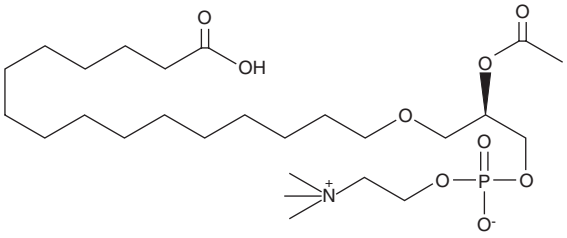
PRODUCT INFORMATION

PAF C-16 Carboxylic Acid

Item No. 15392

CAS Registry No.: 129879-41-0
Formal Name: (R)-7-(acetyloxy)-24-carboxy-4-hydroxy-N,N,N-trimethyl-3,5,9-trioxa-4-phosphatetracosan-1-aminium, inner salt, 4-oxide
Synonyms: CPAGP, Platelet-activating Factor C-16 Carboxylic Acid
MF: $C_{26}H_{52}NO_9P$
FW: 553.7
Purity: ≥95%
Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥1 year



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

PAF C-16 carboxylic acid 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 ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of PAF C-16 carboxylic acid in these solvents is approximately 25, 15, and 1 mg/ml, respectively.

PAF C-16 carboxylic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of PAF C-16 carboxylic acid should be diluted with the aqueous buffer of choice. The solubility of PAF C-16 carboxylic acid in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

PAF C-16 is a naturally occurring phospholipid produced upon stimulation through two distinct pathways known as the 'remodeling' and '*de novo*' pathways.[1] It is a potent mediator of neutrophil migration and the production of reactive oxygen species and IL-6.[2-4] Pathological processes involving PAF include necrotizing enterocolitis, inflammation, asthma, and allergy.[5,6] PAF C-16 Carboxylic acid is modified with a carboxylic acid group terminating the C-16 alkyl chain. This provides a convenient site for chemical crosslinking.

References

1. Prescott, S.M., Zimmerman, G.A., and McIntyre, T.M. *J. Biol. Chem.* **265(29)**, 17381-17384 (1990).
2. Carolan, E.J. and Casale, T.B. *J. Immunol.* **145(8)**, 2561-2565 (1990).
3. Rouis, M., Nigon, F., and Chapman, M.J. *Biochem. Biophys. Res. Commun.* **156(3)**, 1293-1301 (1988).
4. Thivierge, M. and Rola-Pleszczynski, M. *J. Allergy Clin. Immunol.* **90(5)**, 796-802 (1992).
5. Wang, H., Tan, X.-D., Qu, X.-W., *et al. Pediatr. Res.* **42(5)**, 597-603 (1997).
6. Sturk, A., Wouter Ten Cate, J., Hosford, D., *et al. Adv. Lipid Res.* **23**, 219-276 (1989).

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