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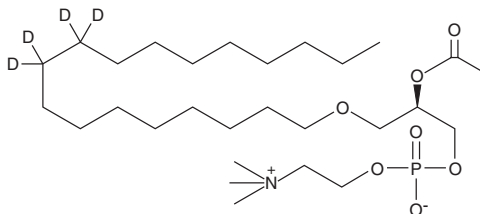
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PRODUCT INFORMATION



PAF C-18-d₄
Item No. 10010229

Formal Name: 1-O-octadecyl-2-O-acetyl-sn-glycerol-3-phosphorylcholine-9,9,10,10-d₄
MF: C₂₈H₅₄D₄NO₇P
FW: 555.7
Chemical Purity: ≥98% PAF C-18
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₄); ≤1% d₀
Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

PAF C-18-d₄ contains four deuterium atoms at the 9, 9', 10, and 10' positions. PAF C-18-d₄ is intended for use as an internal standard for the quantification of PAF C-18 (Item No. 60910) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

PAF C-18-d₄ 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-18-d₄ in these solvents is approximately 10 mg/ml.

Description

PAF C-18 is a naturally occurring phospholipid produced upon stimulation through two distinct pathways known as the 'remodeling' and 'de novo' pathways.¹ It is less potent than PAF C-16 in the induction of platelet aggregation, but equipotent in activation of guinea pig macrophages.² PAF C-18 induces the release of prostaglandin E₂ and thromboxane B₂ from albumin-elicited guinea pig macrophages, and enhances the spreading of plated macrophages.³ Pathological processes involving PAF include necrotizing enterocolitis, inflammation, asthma, and allergy.^{4,5}

References

1. Prescott, S.M., Zimmerman, G.A., and McIntyre, T.M. *J. Biol. Chem.* **265**, 17381-17384 (1990).
2. Stewart, A.G. and Grigoriadis, G. *J. Lipid Mediators* **4**, 299-308 (1991).
3. Hartung, H.-P. *FEBS Lett.* **160**, 209-212 (1983).
4. Wang, H., Tan, X.-D., Qu, X.-W., et al. *Pediatr. Res.* **42**, 597-603 (1997).
5. Sturk, A., Wouter Ten Cate, J., Hosford, D., et al. *Adv. Lipid Res.* **23**, 219-276 (1989).

WARNING

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

SAFETY 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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