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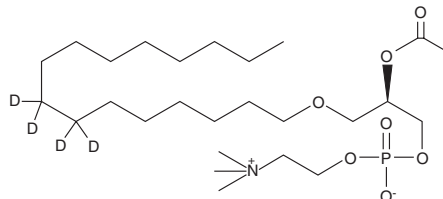
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PRODUCT INFORMATION



PAF C-16-d₄ Item No. 360900

CAS Registry No.: 211106-54-6
Formal Name: 1-O-hexadecyl-(7,7,8,8-d₄)-2-O-acetyl-sn-glycerol-3-phosphorylcholine
MF: C₂₆H₅₀D₄NO₇P
FW: 527.7
Chemical Purity: ≥98%
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₄); ≤1% d₀
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol
Misc.: Hygroscopic



Laboratory Procedures

PAF C-16-d₄ contains four deuterium atoms at the 7, 7', 8, and 8' positions. It is intended for use as an internal standard for the quantification of PAF C-16 by GC- or LC-mass spectrometry (MS). For long term storage, we suggest that PAF C-16-d₄ be stored as supplied at -20°C. It will be stable for at least one year.

PAF C-16-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 DMSO and dimethyl formamide (DMF) purged with an inert gas can be used. The solubility of PAF C-16-d₄ in these solvents is approximately 1.25 mg/ml.

PAF C-16-d₄ is used as an internal standard for the quantification of PAF C-16 by stable isotope dilution 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).

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,² the production of reactive oxygen species,³ and IL-6⁴ in human macrophages. It is a more potent mediator of platelet aggregation than PAF C-18.⁵ Pathological processes involving PAF include necrotizing enterocolitis,⁶ inflammation, asthma, and allergy.⁷

References

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5. Stewart, A.G. and Grigoriadis, G. *J. Lipid Mediat.* **4**, 299-308 (1991).
6. Wang, H., Tan, X.-D., Qu, X.-W., et al. *Pediatr. Res.* **42**, 597-603 (1997).
7. 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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