

**Product Name:** PAF (C16)

**Catalog No.:** 2940

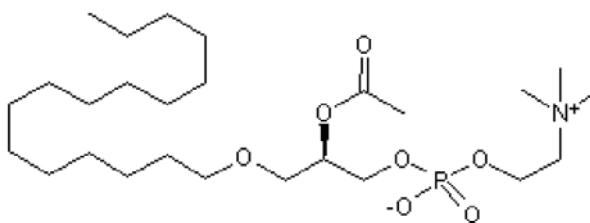
**Batch No.:** 5

CAS Number: 74389-68-7

IUPAC Name: (7*R*)-7-(Acetyloxy)-4-hydroxy-*N,N,N*-trimethyl-3,5,9-trioxa-4-phosphapentacosan-1-aminium-4-oxide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>26</sub>H<sub>54</sub>NO<sub>7</sub>P  
**Batch Molecular Weight:** 523.68  
**Physical Appearance:** White solid  
**Solubility:** water to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = -5 (Concentration = 1, Solvent = Chloroform)

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

PAF (C16) is an endogenous platelet-activating factor (PAF) and ligand for PAF receptors. Produced by inflammatory cells and a potent chemoattractant for polymorphonuclear neutrophils. Induces increased vascular permeability.

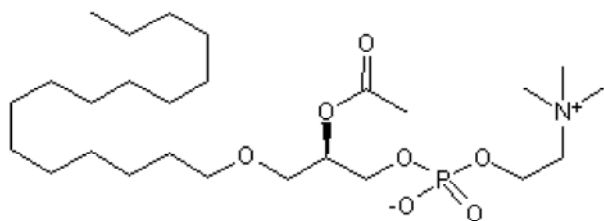
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>26</sub>H<sub>54</sub>NO<sub>7</sub>P

Batch Molecular Weight: 523.68

Physical Appearance: White solid

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 100 mM

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Handa et al** (1991) Vasorelaxant effect of C16-PAF and C18-PAF on renal blood flow and systemic blood pressure in the anesthetized rat. *Life Sci.* **49** 747. PMID: 1875784.

**Archer et al** (1988) Actions of platelet activating factor (PAF) homologues and their combinations on neutrophil chemokinesis and cutaneous inflammatory responses in man. *J.Invest.Dermatol.* **91** 82. PMID: 3385217.

**Oda et al** (1985) Molecular species of platelet-activating factor generated by human neutrophils challenged with ionophore A23187. *J.Immunol.* **134** 1090. PMID: 3917470.

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