



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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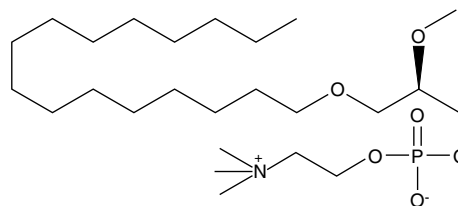
# Product Information



## 2-O-methyl PAF C-16

Item No. 60902

**CAS Registry No.:** 78858-44-3  
**Formal Name:** 1-O-hexadecyl-2-O-methyl-*sn*-glyceryl-3-phosphorylcholine  
**MF:** C<sub>25</sub>H<sub>54</sub>NO<sub>6</sub>P  
**FW:** 495.7  
**Purity:** ≥ 98%  
**Stability:** ≥ 1 year at -20°C  
**Supplied as:** A solution in ethanol



### Laboratory Procedures

For long term storage, we suggest that 2-O-methyl PAF C-16 be stored as supplied at -20°C. It should be stable for at least one year.

2-O-methyl PAF C-16 is sparingly soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. For biological experiments, we suggest that organic solvent-free aqueous solutions of 2-O-methyl PAF C-16 be prepared by directly dissolving the 2-O-methyl PAF C-16 compound in aqueous buffers. The solubility of 2-O-methyl PAF C-16 in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

2-O-methyl-PAF C-16 is a synthetic PAF analog which contains a methyl group, attached by an ether linkage, at the *sn*-2 position. Although the biological activities of 2-O-methyl PAF C-16 have not been well characterized, the C-18 analog has been shown to mediate a number of biological responses including decreasing plasma membrane fluidity and inhibiting tumor cell invasiveness in embryonic chick heart.<sup>1</sup> In rat astrocytes, the C-18 analog causes the release of large quantities of NO by a pathway involving activation of NOS.<sup>2</sup>

### References

1. van Blitterswijk, W.J., Hilkmann, H., and Storme, G.A. Accumulation of an alkyl lysophospholipid in tumor cell membranes affects membrane fluidity and tumor cell invasion. *Lipids* **22**, 820-823 (1987).
2. Cardile, V., Jiang, X., Renis, M., *et al.* Effects of ether lipid 1-O-octadecyl-2-methoxy-*rac*-glycero-3-phosphocholine and its analogs PAF and CPAF on the release of nitric oxide in primary cultures of rat astrocytes. *Brain Res.* **715**, 98-103 (1996).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/60902](http://www.caymanchem.com/catalog/60902)

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

#### SAFETY DATA

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