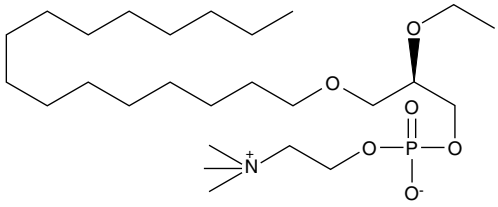
Product Information

2-O-ethyl PAF C-16

Item No. 60925

CAS Registry No.: 78858-42-1
Formal Name: 1-O-hexadecyl-2-O-ethyl-*sn*-glyceryl-3-phosphorylcholine
MF: $C_{26}H_{56}NO_6P$
FW: 509.7
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A lyophilized powder



Laboratory Procedures

For long term storage, we suggest that 2-O-ethyl PAF C-16 be stored as supplied at -20°C. It will be stable for at least two years.

2-O-ethyl PAF C-16 is supplied as a lyophilized powder. A stock solution may be made by dissolving the 2-O-ethyl PAF C-16 in an organic solvent. 2-O-ethyl PAF C-16 is soluble in organic solvents such as ethanol and dimethyl formamide. The solubility of 2-O-ethyl PAF C-16 in these solvents is approximately 125 µg/ml. 2-O-ethyl PAF C-16 will be stable for at least six months in these solvents if stored at -20°C.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of 2-O-ethyl PAF C-16 can be prepared by directly dissolving the lyophilized powder in aqueous buffers. The solubility of 2-O-ethyl PAF C-16 in PBS (pH 7.2) is approximately 11 mg/ml. We do not recommend storing the aqueous solution for more than one day.

2-O-ethyl PAF C-16 is a synthetic PAF analog which contains an ethyl group, attached by an ether linkage, at the sn-2 position. It is a less potent agonist than methylcarbamyl PAF C-16 in the induction of platelet aggregation in both human and rabbit PRP.[1] 2-O-ethyl PAF C-16 causes aggregation of neutrophils in the presence of divalent cations, and a desensitization to aggregation in the absence of divalent cations.[2]

References

1. Hadváry, P., Cassal, J.-M., Hirth, G., *et al.* Structural requirements for the activation of blood platelets by analogues of platelet-activating factor (PAF-acether). *Platelet-Activating Factor INSERM Symposium* **23**, 57-64 (1983).
2. O'Flaherty, J.T., Lees, C.J., Miller, C.H. , *et al.* Selective desensitization of neutrophils: Further studies with 1-O-alkyl-*sn*-glycero-3-phosphocholine analogues. *J. Immunol.* **127**, 731-737 (1981).

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