
Product Data Sheet

Product Name: Hexanolamino PAF C-16

Cat. No.: GC13752

Chemical Properties

Cas. No. 137566-83-7

Chemical Name 1-O-hexadecyl-2-O-acetyl-*sn*-glyceryl-3-phosphoryl(N,N,N-trimethyl)hexanolamineSMILES CCCCCCCCCCCCCCCCOC[C@@H](OC(C)=O)COP(OCCCCC[N+](C)(C)C)([O-])=OFormula C₃₀H₆₂NO₇P M.Wt 579.8

Solubility ≤23mg/ml in ethanol;0.5mg/ml in DMSO;1.5mg/ml in dimethyl formamide Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Hexanolamino PAF C-16 is a PAF analog with PAF agonist/antagonist properties.

Platelet activating factor (PAF; C16), a phospholipid mediator of inflammation, is secreted by several cell types including arterial endothelial cells, and can activate polymorphonuclear leucocytes and monocytes via specific cell surface receptors. PAF also stimulates the production of active oxygen species by human monocyte - derived macrophages [1].

Hexanolamino PAF C-16, a PAF analog with an increased inter-ionic distance in the polar head group, showed a greater potency in macrophages than platelets. In human monocyte-derived macrophages, Hexanolamino PAF C-16 was an antagonist and specifically inhibited the generation of superoxide ion (O₂⁻) and hydrogen peroxide (H₂O₂) in response to PAF [1]. In both rabbit platelets and guinea-pig macrophages,

Caution: Product has not been fully validated for medical applications. For research use only.

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Hexanolamino PAF C-16 acted as a partial agonist [2].

References:

[1]. Rouis M, Nigon F, Chapman MJ. Platelet activating factor is a potent stimulant of the production of active oxygen species by human monocyte-derived macrophages.

Biochem Biophys Res Commun. 1988 Nov 15;156(3):1293-301.

[2]. Stewart AG, Grigoriadis G. Structure-activity relationships for platelet-activating factor (PAF) and analogues reveal differences between PAF receptors on platelets and macrophages. J Lipid Mediat. 1991 Nov;4(3):299-308.

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