
Product Data Sheet

Product Name: Pyrrolidino PAF C-16

Cat. No.: GC13597

Chemical Properties

Cas. No. 91021-63-5

Chemical Name 1-O-hexadecyl-2-O-acetyl-*sn*-glyceryl-3-phosphoryl-N-methyl-pyrrolidinium ethanol

SMILES CCCCCCCCCCCCCCCCOC[C@@H](OC(C)=O)COP(OCC[N+](C)CCCC1)([O-])=O

Formula C₂₈H₅₆NO₇P M.Wt 549.7

Solubility ≤25mg/ml in PBS 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

Pyrrolidino PAF C-16 is a synthetic analog of PAF C-16 with hypotensive action [1][2].

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. PAF have potent hypotensive activity. C16-PAF was about three times more potent than C18-PAF in the activity of releasing serotonin [1][2].

Pyrrolidino PAF C-16, a synthetic analog of PAF C-16, is a potent mediator of PAF-like activities, including hypotension and platelet aggregation [1][2].

In male Wistar rats, Pyrrolidino PAF C-16 dose-dependently decreased blood pressure and the duration of the hypotension was also dose-dependent. Pyrrolidino PAF C-16 was

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

3-10 times more potent than natural PAF in the hypotensive activity [1][2].

References:

[1]. Shigenobu K, Masuda Y, Tanaka Y, et al. Platelet activating factor analogues: lack of correlation between their activities to produce hypotension and endothelium-mediated vasodilation. J Pharmacobiodyn. 1985 Feb;8(2):128-33.

[2]. Kasuya Y, Masuda Y, Shigenobu K. Hypotensive actions of some analogues of platelet-activating factor (PAF) with higher potencies than natural PAF. Can J Physiol Pharmacol. 1984 Apr;62(4):457-9.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA