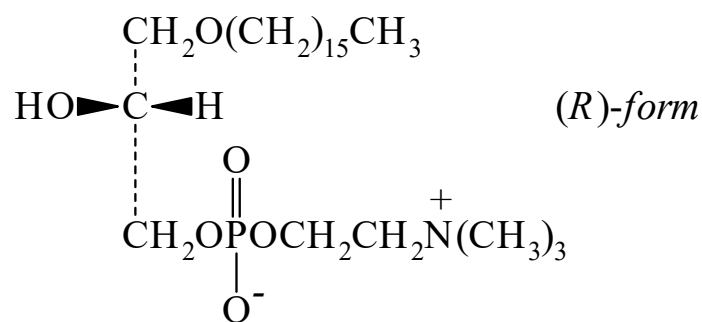




>>Entry Name: 1-*O*-Hexadecylglycero-3-phosphocholine

Synonym(s): 4,7-Dihydroxy-*N,N,N*-trimethyl-3,5,9-trioxa-4-phosphapentacosan-1-aminium hydroxide inner salt, 4-oxide. Lyso-PAF (C-16)



CAS Registry Number: 52691-62-0

Molecular Formula: C₂₄H₅₂NO₆P

Molecular Weight: 481.652

Accurate Mass: 481.353226

Percentage Composition: C 59.85%; H 10.88%; N 2.91%; O 19.93%; P 6.43%

Fluka: 52305

Sigma: L9888

>>Variant: (*R*)-form

Molecular Formula: C₂₄H₅₂NO₆P

Molecular Weight: 481.652

Accurate Mass: 481.353226

Percentage Composition: C 59.85%; H 10.88%; N 2.91%; O 19.93%; P 6.43%

Physical Description: Powder

Melting Point: Mp 250 dec.°

Optical Rotation: [α]_D²⁵ -6.09 (c, 1.04 in CHCl₃/MeOH)

>>Derivative: 2-Ac

Synonym(s): 2-*O*-Acetyl-1-*O*-hexadecylglycero-3-phosphocholine. 1-*O*-Hexadecyl-PAF. PAF(C-16)

CAS Registry Number: 74389-68-7

Molecular Formula: C₂₆H₅₄NO₇P

Molecular Weight: 523.689

Accurate Mass: 523.363791

Percentage Composition: C 59.63%; H 10.39%; N 2.67%; O 21.39%; P 5.91%

Use/Importance: Major molecular form of Platelet activating factor [CRJ86-F](#). Powerful mediator in physiological processes such as anaphylaxis and inflammation

Physical Description: Amorph. solid

Melting Point: Mp 247 dec.°

Optical Rotation: [α]_D²⁰ -3.3 (c, 0.53 in CHCl₃/MeOH)

Fluka: 1188

Sigma: P4904

>>Derivative: 2-*O*-(8,11,14-Eicosatrienoyl)

Synonym(s): 1-*O*-Hexadecyl-2-*O*-dihomogammalinolenoylglycero-3-phosphocholine

CAS Registry Number: 131907-73-8

Molecular Formula: C₄₄H₈₄NO₇P

Molecular Weight: 770.124

Accurate Mass: 769.598541

Percentage Composition: C 68.62%; H 10.99%; N 1.82%; O 14.54%; P 4.02%

Biological Source: Isol. from the Japanese oyster *Crassostrea gigas*

Use/Importance: PAF precursor