

# Product data sheet



MedKoo Cat#: 530786 Name: Lyso-PAF C-16 CAS: 52691-62-0 Chemical Formula: C <sub>24</sub> H <sub>52</sub> NO <sub>6</sub> P Exact Mass: 481.3532 Molecular Weight: 481.6548	
Product supplied as: Powder	
Purity (by HPLC): ≥ 98%	
Shipping conditions: Ambient temperature	
Storage conditions: Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

## 1. Product description:

Lyso-PAF C-16, also known as Lyso-gepc is a lipid compound, and a biologically inactive precursor of platelet activating factor. Lyso-PAF C-16 is a substrate for either PAF C-16 formation by the remodeling pathway<sup>4</sup> or selective acylation with arachidonic acid by a CoA-independent transacylase.

## 2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

## 3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMF	10.0	20.76
DMSO	10.0	20.76
Ethanol	10.0	20.76
PBS (pH 7.2)	10.0	20.76
Water	20.0	41.52

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.08 mL	10.38 mL	20.76 mL
5 mM	0.42 mL	2.08 mL	4.15 mL
10 mM	0.21 mL	1.04 mL	2.08 mL
50 mM	0.04 mL	0.21 mL	0.42 mL

## 5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

## 6. Recommended literature which reported protocols for in vitro and in vivo study

### In vitro study

1. Riaz MS, Kaur A, Shwayat SN, Behboudi S, Kishore U, Pathan AA. Dissecting the Mechanism of Intracellular Mycobacterium smegmatis Growth Inhibition by Platelet Activating Factor C-16. *Front Microbiol.* 2020 Jun 10;11:1046. doi: 10.3389/fmicb.2020.01046. PMID: 32587578; PMCID: PMC7297918.

2. Riaz MS, Kaur A, Shwayat SN, Behboudi S, Kishore U, Pathan AA. Direct Growth Inhibitory Effect of Platelet Activating Factor C-16 and Its Structural Analogs on Mycobacteria. *Front Microbiol.* 2018 Sep 11;9:1903. doi: 10.3389/fmicb.2018.01903. PMID: 30258409; PMCID: PMC6143801.

### In vivo study

TBD

## 7. Bioactivity

Biological target:

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Lyso-PAF C-16, also known as Lyso-gepc is a lipid compound, and a biologically inactive precursor of platelet activating factor.

## In vitro activity

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Exogenous PAF C-16 inhibited the growth of *M. smegmatis* inside phagocytic cells of monocytic cell line, THP-1; this effect was partially blocked by PAF receptor antagonists, suggesting the involvement of PAF receptor-mediated signaling pathways.

Reference: Front Microbiol. 2020 Jun 10;11:1046. <https://pubmed.ncbi.nlm.nih.gov/32587578/>

## In vivo activity

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TBD

*Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.*