



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Expressversand

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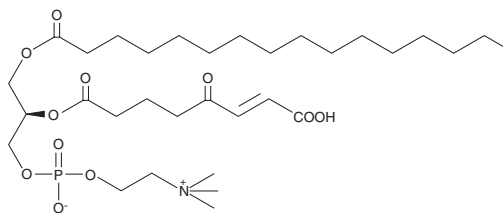
# PRODUCT INFORMATION



## KODiA-PC

Item No. 62945

**CAS Registry No.:** 439904-33-3  
**Formal Name:** 1-(palmitoyl)-2-(5-keto-6-octene-dioyl)phosphatidylcholine  
**MF:**  $C_{32}H_{58}NO_{11}P$   
**FW:** 663.8  
**Purity:**  $\geq 95\%$   
**Supplied as:** A solution in ethanol  
**Storage:**  $-80^{\circ}\text{C}$   
**Stability:**  $\geq 2$  years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

KODiA-PC is supplied as a solution in ethanol. A stock solution may be made by dissolving the KODiA-PC in the solvent of choice, which should be purged with an inert gas. KODiA-PC is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of KODiA-PC in ethanol is approximately 30 mg/ml and approximately 0.5 mg/ml in DMSO and DMF.

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. If an organic solvent-free solution of KODiA-PC is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of KODiA-PC in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

Oxidized low-density lipoprotein (oxLDL) particles contain low molecular weight species which are cytotoxic and pro-atherogenic.<sup>1</sup> Many of these substances were recently isolated and purified from oxLDL, and identified as phosphatidylcholine species containing a fragmented, oxidized short-chain fatty acid remnant at the sn-2 position.<sup>2</sup> 1-(Palmitoyl)-2-(5-keto-6-octene-dioyl) phosphatidylcholine, or KODiA-PC, is one of the most potent CD36 ligands among the oxLDL species.<sup>3</sup> KODiA-PC confers CD36 scavenger receptor binding affinity to LDL at a frequency of only 2 to 3 KODiA-PC molecules/LDL particle, and may be one of the more important structural determinants of oxLDL.

### References

1. Podrez, E.A., Febbraio, M., Sheibani, N., *et al.* Macrophage scavenger receptor CD36 is the major receptor for LDL modified by monocyte-generated reactive nitrogen species. *J. Clin. Invest.* **105**(8), 1095-1108 (2000).
2. Podrez, E.A., Batyreva, E., Shen, Z., *et al.* A novel family of atherogenic oxidized phospholipids promotes macrophage foam cell formation via the scavenger receptor CD36 and is enriched in atherosclerotic lesions. *J. Biol. Chem.* **277**(41), 38517-38523 (2002).
3. Podrez, E.A., Batyreva, B., Shen, Z., *et al.* Identification of a novel family of oxidized phospholipids that serve as ligands for the macrophage scavenger receptor CD36. *J. Biol. Chem.* **277**(41), 38503-38516 (2002).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

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