

KODiA-PC

Chemical Properties

CAS No. : 439904-33-3

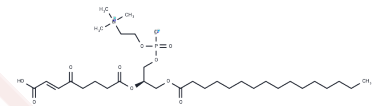
Formula: C32H58NO11P

Molecular Weight: 663.78

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

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|---------------|---|
| Description | KODiA-PC is a truncated oxidized phospholipid and a CD36-targeting ligand found on oxLDL. It inhibits activation of TLR4 signaling components. |
| Targets(IC50) | Integrin |
| In vitro | KODiA-PC inhibited LPS-induced macrophage migration. [1] |
| In vivo | In a mouse model of acute lung injury induced by intranasal injection of HKSA, intravenous injection of KODiA-PC(10 mg/kg) increased HKSA-induced BAL protein content and cell count, as well as tissue expression of TNF- α , KC, IL1 β and CCL2. And promoted blood vessel leakage in Evans Blue's lung infiltration monitoring. [2] |

Solubility Information

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| Solubility | PBS (pH7.2): 5 mg/mL (7.53 mM),Sonication is recommended. DMSO: < 1 mg/mL (insoluble or slightly soluble) PBS (pH 7.2): 1 mg/mL (1.51 mM),Sonication is recommended. Ethanol: 10 mg/mL (15.07 mM),Sonication is recommended. DMF: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.5065 mL | 7.5326 mL | 15.0652 mL |
| 5 mM | 0.3013 mL | 1.5065 mL | 3.013 mL |
| 10 mM | 0.1507 mL | 0.7533 mL | 1.5065 mL |
| 50 mM | 0.0301 mL | 0.1507 mL | 0.3013 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kim MJ, et al. Suppression of Toll-like receptor 4 activation by endogenous oxidized phosphatidylcholine, KOdiA-PC by inhibiting LPS binding to MD2. *Inflamm Res.* 2013 Jun;62(6):571-80.

Karki P, et al. Truncated oxidized phospholipids exacerbate endothelial dysfunction and lung injury caused by bacterial pathogens. *Cell Signal.* 2023 Sep;109:110804.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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