

Product Data Sheet

Product Name: KODiA-PC

Cat. No.: GC44011

Chemical Properties

Cas. No. 439904-33-3

SMILES O=P([O-])(OCC[N+](C)(C)C)OC[C@H](OC(CCCC/C=C/C(O)=O)=O)=O)COC(CCCCCCCCCCCC=O)

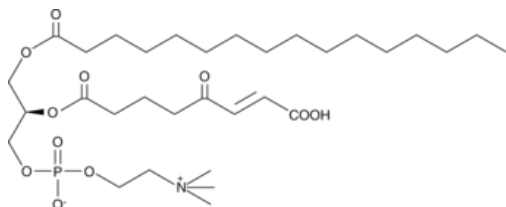
Formula C₃₂H₅₈NO₁₁P M.Wt 663.8

Solubility DMF: .5 mg/ml, DMSO: .5 mg/ml, Ethanol: 30 mg/ml, PBS (pH7.2): 5 mg/ml
Storage Store at -80°C, protect from light

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

Oxidized low-density lipoprotein (oxLDL) particles contain low molecular weight species which are cytotoxic and pro-atherogenic. 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. 1-(Palmitoyl)-2-(5-keto-6-octene-diyl) phosphatidylcholine, or KODiA-PC, is one of the most potent CD36 ligands among the oxLDL species. 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.

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

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