

General Lysophosphatidylcholine ELISA Kit | LPC elisa kit

General Lysophosphatidylcholine (LPC) ELISA Kit

CATALOG #
AAA20998

REACTIVITY
General

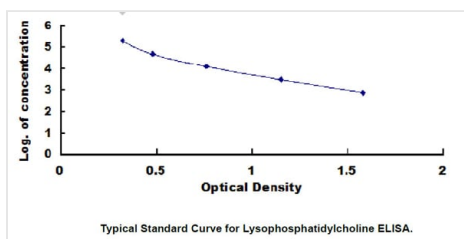
PRODUCT SYNONYMS

Lysophosphatidylcholine; General Lysophosphatidylcholine (LPC) ELISA Kit; lysoPC; Lysolecithin; 1-Palmitoyl-sn-Glycero-3-Phosphocholine; LPC elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of lysophosphatidylcholine. No significant cross-reactivity or interference between lysophosphatidylcholine and analogues was observed.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	781.25-200,000ng/mL
Sensitivity	< 284.33ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level lysophosphatidylcholine were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level lysophosphatidylcholine were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LPC elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to lysophosphatidylcholine has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled lysophosphatidylcholine and unlabeled lysophosphatidylcholine (Standards or samples) with the pre-coated antibody specific to lysophosphatidylcholine. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of lysophosphatidylcholine in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of lysophosphatidylcholine in the sample. Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of lysophosphatidylcholine in serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
References	Therapeutic potential of cPLA2 inhibitor to counteract dilated-cardiomyopathy in cholesterol-treated H9C2 cardiomyocyte and MUNO rat; Pharmacol Res; 2020 Oct;160:105201.; PMID: 32942017; Jiung-Pang Huang; Department and Graduate Institute of Biomedical Sciences, College of Medicine, Chang Gung University, Taoyuan, Taiwan; Healthy Aging Research Center, Chang Gung University, Taoyuan, Taiwan. Electronic address: dddivekimo@yahoo.com.tw.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/lpc-general-elisa-kits/lysophosphatidylcholine/20998>