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## **Recombinant human ACP6 protein**

Catalog Number: ATGP3015

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **Domain**

33-428aa

#### UniProt No.

O9NPH0

#### **NCBI Accession No.**

NP 057445.4

#### **Alternative Names**

lysophosphatidic acid phosphatase type 6, lysophosphatidic acid phosphatase type 6, ACPL1, LPAP, PACPL1

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

47.7 kDa (419aa)

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol, 1mM DTT

#### **Purity**

> 95% by SDS-PAGE

#### **Biological Activity**

Specific activity is > 1,000 unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 5.0 at 37C.

## Tag

His-Tag

## **Application**

SDS-PAGE, Enzyme Activity

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

ACP6 also known as lysophosphatidic acid phosphatase type 6, is Hydrolyzes lysophosphatidic acid (LPA) containing a medium length fatty acid chain to the corresponding monoacylglycerol. Has highest activity with lysophosphatidic acid containing myristate (C14:0), monounsaturated oleate (C18:1) or palmitate (C16:0), and



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lower activity with C18:0 and C6:0 lysophosphatidic acid. Recombinant human ACP6 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

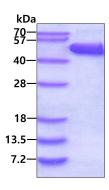
<MGSSHHHHHH SSGLVPRGSH MGS>ELQEADG QCPVDRSLLK LKMVQVVFRH GARSPLKPLP LEEQVEWNPQ LLEVPPQTQF DYTVTNLAGG PKPYSPYDSQ YHETTLKGGM FAGQLTKVGM QQMFALGERL RKNYVEDIPF LSPTFNPQEV FIRSTNIFRN LESTRCLLAG LFQCQKEGPI IIHTDEADSE VLYPNYQSCW SLRQRTRGRR QTASLQPGIS EDLKKVKDRM GIDSSDKVDF FILLDNVAAE QAHNLPSCPM LKRFARMIEQ RAVDTSLYIL PKEDRESLQM AVGPFLHILE SNLLKAMDSA TAPDKIRKLY LYAAHDVTFI PLLMTLGIFD HKWPPFAVDL TMELYQHLES KEWFVQLYYH GKEQVPRGCP DGLCPLDMFL NAMSVYTLSP EKYHALCSQT QVMEVGNEE

#### **General References**

Hiroyama M., et al. (1999) J. Biol. Chem. 274:29172-29180. Li J., et al. (2013) Protein Cell 4:548-561.

## **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

