Recombinant human ACP6 protein

Catalog Number: ATGP3015

PRODUCT INFORMATION

Expression system
E.coli

Domain
33-428aa

UniProt No.
Q9NPH0

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

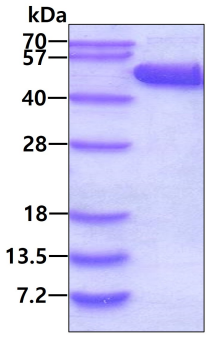
<MGSSHHHHHH SSGLVPRGSH MGS>ELQEADG QCPVDRSLLK LKMVQVVFRH GARSPLKPLP LEEQVEWNPQ LLEVPPQTQF DYTVTNLAGG PKPYSPYDSQ YHETTLKGGM FAGQLTKVGM QQMFALGERL RKNYVEDIPF LSPTFNPQEV FIRSTNIFRN LESTRCLLAG LFQCQKEGPI IIHTDEADSE VLYPNYQSCW SLRQRTRGRR QTASLQPGIS EDLKKVKDRM GIDSSDKVDF FILLDNVAAE QAHNLPSCPM LKRFARMIEQ RAVDTSLYIL 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.