
Product Data Sheet

Product Name: ACP6 Human
 Cat. No.: GP21345
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms AcidPhosphatase 6; Lysophosphatidic; Acid Phosphatase-Like Protein 1; PACPL1;ACPL1; LPAP; Lysophosphatidic Acid Phosphatase Type 6; Lysophosphatidic AcidPhosphatase 6; Acid Phosphatase Like 1; EC 3.1.3.2; Lysophosphatidic acidphosphatase type 6.

Amino Acid Sequence
 MGSSHHHHH SSGLVPRGSH MGSELQEADG QCPVDRSLK LKMVQVFRH
 GARSPLKPLP LEEQVEWNPQLLEVPPQTQF DYTVTNLAGG PKPYSPYDSQ
 YHETTLKGGM FAGQLTKVGM QQMFALGERL RKNYVEDIPFLSPTFNPQEV
 FIRSTNIFRN LESTRCLLAG LFQCQKEGPIIIHTDEADSE VLYPNYQSCW
 SLRQRTRGRR QTASLQPGIS EDLKKVKDRMGIDSSDKVDF FILLDNVAAE
 QAHNLPSCPM LKRFARMIEQ RAVDTSLYIL PKEDRESLQM
 AVGPFLHILESNULLKAMDSA TAPDKIRKLY LYAAHDVTFI PLLMTLGIFD
 HKWPPFAVDL TMELYQHLESKEWFVQLYYH GKEQVPRGCPDGLCPLDMFL
 NAMSVYTLSP EKYHALCSQT QVMEVGNEE.

Formulation ACP6 protein solution (1mg/ml) containing Phosphatebuffered saline (pH7.4), 30% glycerol and 1mM DTT.

Introduction

Acid Phosphatase-6, also known as ACP6 is Hydrolyzes lysophosphatidicacid (LPA) which contains a medium length fatty acid chain to the correspondingmonoacylglycerol. ACP6 shows highest activity with lysophosphatidic acid whichcontains myristate (C14:0), monounsaturated oleate (C18:1) or palmitate (C16:0),and lower activity with C18:0 as well as C6:0 lysophosphatidic acid.

Biological Activity

Specific activity is > 70 units/mg, and is defined as the amount of enzyme which

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

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hydrolyze 1.0 nmoles of p-nitrophenyl phosphate (pNPP) per minute at PH5.0 at 37C.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ACP6 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 419 amino acids (33-428a.a) and having a molecular mass of 47.7kDa. ACP6 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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