

Acid Phosphatase-1 Active Protein | ACP1 active protein

Recombinant Human Acid Phosphatase-1

CATALOG #
AAA38771

HOST
E Coli

PRODUCT SYNONYMS

Acid Phosphatase-1; Recombinant Human Acid Phosphatase-1; ACP1 Human; Acid Phosphatase-1 Human Recombinant; HAAP; MGC3499; MGC111030; ACP1; Low molecular weight phosphotyrosine protein phosphatase; LMW-PTPase; LMW-PTP; Low molecular weight cytosolic acid phosphatase; Red cell acid phosphatase 1; Adipocyte acid phosphatase; ACP1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The ACP1 protein solution contains 20mM MES, pH-6, 0.1mM PMSF, 2mM EDTA and 10% Glycerol. Sterile filtered colorless solution.
Sequence	MGSSHHHHHH SSGLVPRGSH MAEQATKSVL FVCLGNICRS PIAEAVFRKL VTDQNISENW VIDSGAVSDW NVGRSPDPRA VSCLRNHGIH TAHKARQITK EDFATFDYIL CMDESNLRLD NRKSNQVKTC KAKIELLSY DPQKQLIED PYYGNDSDFE TVYQQCVRCC RAFLEKAH
Sequence Length	112
Unit Defenition	One unit is defined as the amount of enzyme that will hydrolyze 1nmole of p-nitrophenyl phosphate per minute at 37 degree C in MES pH5.0 using 10mM of substrate.
Specific Activity	60,000 Units per 1mg.
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree 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.

ADDITIONAL INFORMATION

Related Product Information for ACP1 active protein	Description: Recombinant Human ACP1 produced in E Coli is a single, non-glycosylated polypeptide chain containing 178 amino acids (1-158 a.a.) and having a molecular mass of 20.1 kDa. ACP1 is fused to a 20 amino acid His-Tag at N-Terminus and purified by conventional chromatography techniques. Introduction: ACP1 is part of the phosphotyrosine protein. ACP1 functions as an acid phosphatase and a protein tyrosine phosphatase (PTPase) existing in all human tissues, including adipocytes. ACP1 enzyme hydrolyzes protein tyrosine phosphate to protein tyrosine and orthophosphate, and also orthophosphoric monoesters to alcohol and orthophosphate. ACP1 is present in adipocytes, thus playing a specific role in the regulation of adipose tissue. High levels of the ACP1 negatively regulate cell proliferation and growth of leiomyomas during dephosphorylation of the PDGF receptor. High significant differences in birth weight-placental weight relationships were observed among acid phosphatase locus 1 phenotypes.
Product Categories/Family for ACP1 active protein	Enzymes; Phosphatase

NCBI AND UNIPROT INFORMATION

NCBI GI #	96304457
NCBI GeneID	52

NCBI Accession #	NP_001035739.1
NCBI GenBank Nucleotide #	NM_001040649.2
UniProt Accession #	P24666 ; P24667 ; Q16035 ; Q16036 ; Q16725 ; Q3KQX8 ; Q53RU0 ; A8K1L9 ; B5MCC7
Molecular Weight	12,230 Da
NCBI Official Full Name	low molecular weight phosphotyrosine protein phosphatase isoform d
NCBI Official Synonym Full Names	acid phosphatase 1, soluble
NCBI Official Symbol	ACP1
NCBI Official Synonym Symbols	HAAP
NCBI Protein Information	low molecular weight phosphotyrosine protein phosphatase; LMW-PTP; LMW-PTPase; acid phosphatase of erythrocyte; adipocyte acid phosphatase; cytoplasmic phosphotyrosyl protein phosphatase; low molecular weight cytosolic acid phosphatase; protein tyrosine phosphatase; red cell acid phosphatase 1
UniProt Protein Name	Low molecular weight phosphotyrosine protein phosphatase
UniProt Gene Name	ACP1
UniProt Synonym Gene Names	LMW-PTP; LMW-PTPase
UniProt Entry Name	PPAC_HUMAN

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://stage.aaabiotech.com/e-coli-acp1-active-protein/acid-phosphatase-1/38771>