

Acid phosphatase 1 Active Protein | ACP1 active protein

Acid phosphatase 1,1-158aa, Human, His tag, E Coli (Bioactivity Validated)

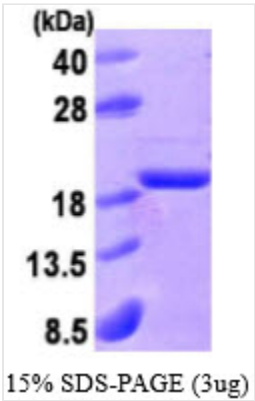
CATALOG # AAA48522	HOST E Coli	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

Acid phosphatase 1; 1-158aa; Human; His tag; E Coli (Bioactivity Validated); Acid phosphatase 1 soluble isoform b; soluble isoform b; ACP1; HAAP; LMW-PTP; Red cell acid phosphatase 1; Adipocyte acid phosphatase; soluble isoform b Acid phosphatase 1 soluble; Adipocyte acid phosphatase Cytoplasmic phosphotyrosyl protein phosphatase; Low molecular weight phosphotyrosine protein phosphatase; Acid phosphatase of erythrocyte; PAP2; Protein tyrosine phosphatase; PTPase; Purple acid phosphatase; Red cell acid phosphatase 1.; ACP1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20 mM MES 6.0, 0.1 mM PMSF, 2 mM EDTA, 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MAEQATKSVL FVCLGNICRS PIAEAVFRKL VTDQNISENW VIDSGAVSDW NVGRSPDPRA VSCLRNHGIH TAHKARQITK EDFATFDYIL CMDESNLRLD NRKSNQVKTC KAKIELLGSY DPQKQLIIED PYYGNDSDFE TVYQQCVRCC RAFLEKAH
Sequence Length	158
Applicable Applications for ACP1 active protein	Enzyme Activity, SDS-PAGE
Domain	1-158aa
Antigen Species	Human
Tag Information	His-tag
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity	Specific activity is > 15,000 units/mg, and is defined as the amount of enzyme that hydrolyze 1.0 nmoles of p-nitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37C.
Preparation and Storage	Can be stored at 2-8 degree C for 1 week. For long term storage, aliquot and store at -20 degree C or -80 degree C. Avoid repeated freezing and thawing cycles.



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

ADDITIONAL INFORMATION

Related Product Information for ACP1 active protein	Acid phosphatase 1, soluble, also known as ACP1, belongs to the phosphotyrosine protein. It functions as an acid phosphatase and a protein tyrosine phosphatase (PTPase) present in all human tissues, including adipocytes. This enzyme hydrolyzes protein tyrosine phosphate to protein tyrosine and orthophosphate, and also orthophosphoric monoesters to alcohol and orthophosphate. Recombinant ACP1, fused to His-tag at N-terminus, was expressed in E Coli and purified by conventional chromatography techniques.
Product Categories/Family for ACP1 active protein	Enzymes & Proteases
References	De Lorenzo A., et al. (2009) Metabolism.58 (3):351-4; Banci M., et al. (2009) Cardiology.113 (4):236-242.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	6005988
NCBI GeneID	52
NCBI Accession #	NP_009030
NCBI GenBank Nucleotide #	NM_007099.3
UniProt Accession #	P24666; P24667; Q16035; Q16036; Q16725; Q3KQX8; Q53RU0; A8K1L9; B5MCC7
Molecular Weight	20.1 kDa (178 aa), confirmed by MALDI-TOF.
NCBI Official Full Name	low molecular weight phosphotyrosine protein phosphatase isoform b
NCBI Official Synonym Full Names	acid phosphatase 1
NCBI Official Symbol	ACP1
NCBI Official Synonym Symbols	HAAP; LMWPTP; LMW-PTP
NCBI Protein Information	low molecular weight phosphotyrosine protein phosphatase
UniProt Protein Name	Low molecular weight phosphotyrosine protein phosphatase
UniProt Gene Name	ACP1
UniProt Synonym Gene Names	LMW-PTP; LMW-PTPase

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.