

Acid Phosphatase 1 (ACP1) Active Protein | ACP1 active protein

Active Acid Phosphatase 1 (ACP1)

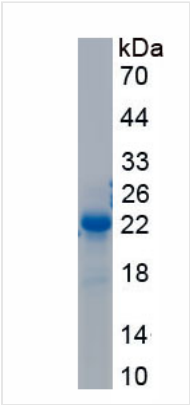
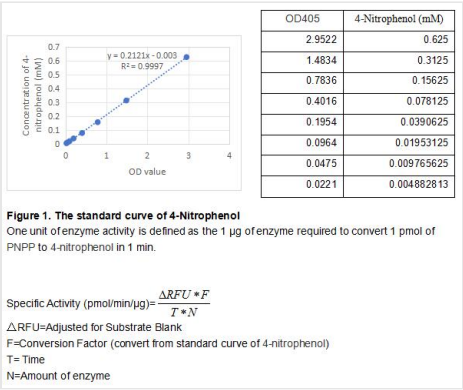
CATALOG # AAA161821	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Acid Phosphatase 1 (ACP1); Active Acid Phosphatase 1 (ACP1); Acid Phosphatase 1; HAAP; Low Molecular Weight Phosphotyrosine Protein Phosphatase; Adipocyte acid phosphatase; Red cell acid phosphatase 1; LMW-PTPase4; ACP1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Met1~Tyr15 8
Applicable Applications for ACP1 active protein	Activity Assay, Cell Culture
Species	Mouse
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6.7
Research Area	Enzyme & Kinase, Metabolic pathway, Hepatology, Bone metabolism
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months



Bioactivity

Acid phosphatase locus 1 (ACP1) is a low molecular weight protein tyrosine phosphatase that has been shown to be an important regulator of insulin receptor signaling. The activity assay of recombinant mouse ACP1 was measured by its ability to cleave a peptide substrate, 4-Nitrophenyl phosphate disodium (PNPP). The reaction was performed in 50 mM NaOAc, pH 5.0 (assay buffer), initiated by addition 50 µl of 3 µg/ml ACP1 (diluted by assay buffer) to 50 µL of 2 mM substrate. Incubated at room temperature for 5 minutes in the dark and add 100 µl of 0.2 M NaOH to stop the reaction. Read at a wavelength of 405 nm (top read), the specific activity of recombinant mouse ACP1 is >32000 pmol/min/ug.

SDS-PAGE

Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for ACP1 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	159032062
NCBI GeneID	11431
NCBI Accession #	NP_001103709.1
NCBI GenBank Nucleotide #	NM_001110239.1
UniProt Accession #	Q9D358; O88739; O88740; Q9QWF5
Molecular Weight	18,192 Da
NCBI Official Full Name	low molecular weight phosphotyrosine protein phosphatase isoform 1
NCBI Official Synonym Full Names	acid phosphatase 1, soluble
NCBI Official Symbol	Acp1
NCBI Official Synonym Symbols	Acp-1; LMW-PTP; A1427468; 4632432E04Rik
NCBI Protein Information	low molecular weight phosphotyrosine protein phosphatase; LMW-PTPase; low molecular weight cytosolic acid phosphatase
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_MOUSE

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.

