

Human Recombinant Acid phosphatase 1

CATALOG #:	6378-100	100 µg
ALTERNATE NAMES:	Acid phosphatase 1, soluble isoform b, ACP1, HAAP, LMW-PTP, Red cell acid phosphatase 1, Adipocyte acid phosphatase.	
SOURCE:	E.Coli	
PURITY:	> 95% by SDS - PAGE	
MOL. WEIGHT:	20.1 kDa (178 aa, 1-158 aa + NT His-Tag)	
FORMULATION:	1 mg/ml solution in 20 mM MES 6.0, 0.1 mM PMSF, 2 mM EDTA and 10% glycerol.	
ENDOTOXIN CONTENT:	< 1.0 EU per 1 µg of protein (determined by LAL method)	

STORAGE CONDITIONS:

Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION:

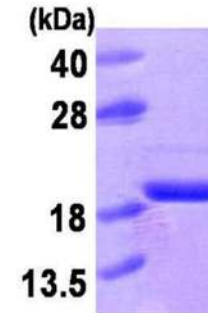
Acid phosphatase 1, also known as ACP1, belongs to the phosphotyrosine protein family. It functions as an acid phosphatase and a protein tyrosine phosphatase (PTPase) and is present in all human tissues, including adipocytes. This enzyme hydrolyzes protein tyrosine phosphate to protein tyrosine and orthophosphate, and also orthophosphoric monoesters to alcohol and orthophosphate.

AMINO ACID SEQUENCE:

MGSSHHHHHH SSGLVPRGSH MAEQATKSVL FVCLGNICRS PIAEAVFRKL
VTDQNIENW VIDSGAVSDW NVGRSPDPRA VSCLRNHGIH TAHKARQITK EDFATFDYIL
CMDESNLRLDL NRKSNQVKTC KAKIELLSY DPQKQLIID PYGNDSDFE TVYQQCVRCC
RAFLEKAH

BIOLOGICAL ACTIVITY:

> 60,000 unit/mg of protein. One unit is defined as the amount of enzyme that will hydrolyze 1 nmole of p-nitrophenyl phosphate per minute at 37°C in MES pH 5.0 using 10 mM of substrate.



15% SDS-PAGE (3µg)

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RELATED PRODUCTS:

- Acid Phosphatase Activity Colorimetric Assay Kit (Cat. No. K411-100)
- Acid Phosphatase Activity Fluorometric Assay Kit (Cat. No. K421-100)
- Alkaline Phosphatase Activity Colorimetric Assay Kit (Cat. No. K412-100)
- Alkaline Phosphatase Activity Fluorometric Assay Kit (Cat. No. K422-100)

FOR RESEARCH USE ONLY! Not to be used in humans.