

Recombinant Human ACP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ACP1-4837H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ACP1 MS Standard C13 and N15-labeled recombinant protein (NP_009030) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The product of this gene belongs to the phosphotyrosine protein phosphatase family of proteins. It functions as an acid phosphatase and a protein tyrosine phosphatase by hydrolyzing protein tyrosine phosphate to protein tyrosine and orthophosphate. This enzyme also hydrolyzes orthophosphoric monoesters to alcohol and orthophosphate. This gene is genetically polymorphic, and three common alleles segregating at the corresponding locus give rise to six phenotypes. Each allele appears to encode at least two electrophoretically different isozymes, Bf and Bs, which are produced in allele-specific ratios. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene.
Molecular Mass	18 kDa
AA Sequence	MAEQATKSVLFVCLGNICRSPIAEAVFRKLVTQDNISENWWIDSGAVSDWNVGRSPD PRAVSLRNHGIHTAHKARQITKEDFATFDYILCMDESNLRDLNRKSNQVKTCKAKIE LLGSYDPQKQLIIEDPYYGNDSDFETVYQQCVRCCRAFLEKAHTRTRPLEQKLISEE DLAANDILDYKDDDDKV

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	ACP1 acid phosphatase 1 [Homo sapiens (human)]
Official Symbol	ACP1
Synonyms	ACP1; acid phosphatase 1, soluble; low molecular weight phosphotyrosine protein phosphatase; LMW-PTP; LMW-PTPase; adipocyte acid phosphatase; red cell acid phosphatase 1; protein tyrosine phosphatase; acid phosphatase of erythrocyte; cytoplasmic phosphotyrosyl protein phosphatase; low molecular weight cytosolic acid phosphatase; HAAP; MGC3499; MGC111030;
Gene ID	52
mRNA Refseq	NM_007099
Protein Refseq	NP_009030
MIM	171500

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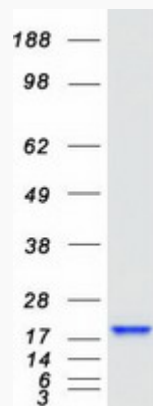
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UniProt ID

P24666

SDS-PAGE

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