Recombinant Human ACP1, His-tagged

Cat. No. ACP1-26291TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 4-158 of Human Acid Phosphatase with a N terminal His tag; 21 kDa.
Species	Human
Source	E.coli
ProteinLength	4-158 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitution with 114 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	QATKSVLFVCLGNICRSPIAEAVFRKLVTDQNISENWRVD SAATSGYEIGNPPDYRG QSCMKRHGIPMSHVARQITKE DFATFDYILCMDESNLRDLNRKSNQVKTCKAKIELL GS YDPQKQLIIEDPYYGNDSDFETVYQQCVRCCRAFLEKAH

GENE INFORMATION

Gene Name	ACP1 acid phosphatase 1, soluble [Homo sapiens]
Official Symbol	ACP1
Synonyms	ACP1; acid phosphatase 1, soluble; low molecular weight phosphotyrosine protein phosphatase;
Gene ID	52
mRNA Refseq	NM_001040649
Protein Refseq	NP_001035739
MIM	171500
Uniprot ID	P24666
Chromosome Location	2p25
Pathway	Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; EPHA2 forward signaling, organism-specific biosystem; PDGFR-beta signaling pathway, organism-specific biosystem; Riboflavin metabolism, organism-

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	specific biosystem;
Function	acid phosphatase activity; hydrolase activity; non-membrane spanning protein tyrosine phosphatase activity; protein binding;

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