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Product datasheet for TP301078L

Acid Phosphatase (ACP1) (NM_007099) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human acid phosphatase 1, soluble (ACP1), transcript variant 2, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201078 protein sequence Red=Cloning site Green=Tags(s) MAEQATKSVLFVCLGNICRSPIAEAVFRKLVTDQNISENWVIDSGAVSDWNVGRSPDPRAVSCLRNHGIH TAHKARQITKEDFATFDYILCMDESNLRDLNRKSNQVKTCKAKIELLGSYDPQKQLIIEDPYYGNDSDFE TVYQQCVRCCRAFLEKAH TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	17.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_009030
Locus ID:	52
UniProt ID:	P24666
RefSeq Size:	1568

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Cytogenetics: 2p25.3

RefSeq ORF: 474

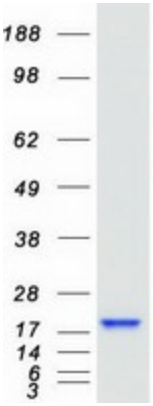
Synonyms: HAAP; LMW-PTP; LMWPTP

Summary: 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. [provided by RefSeq, Aug 2008]

Protein Families: Druggable Genome, Phosphatase, Transmembrane

Protein Pathways: Adherens junction, Riboflavin metabolism

Product images:



Coomassie blue staining of purified ACP1 protein (Cat# [TP301078]). The protein was produced from HEK293T cells transfected with ACP1 cDNA clone (Cat# [RC201078]) using MegaTran 2.0 (Cat# [TT210002]).