

## Product datasheet for **TP720178**

### Acid Phosphatase (ACP1) (NM\_004300) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human acid phosphatase 1, soluble (ACP1), transcript variant 3
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Ala2-His158
Tag:	C-His
Predicted MW:	19 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Endotoxin:	< 0.1 EU per µg protein as determined by LAL test
Storage:	Store at -80°C.
Stability:	Stable for at least 3 months from date of receipt under proper storage and handling conditions.
RefSeq:	<a href="#">NP_004291</a>
Locus ID:	52
UniProt ID:	<a href="#">P24666</a> , <a href="#">Q59EH3</a>
Cytogenetics:	2p25.3
Synonyms:	HAAP; LMW-PTP; LMWPTP

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**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:**
