

## LMW-PTP/ACP1 Protein, Human (C-His)

Cat. No.:	HY-P70327A
Synonyms:	rHuLow molecular weight phosphotyrosine protein phosphatase/LMW-PTP, His; Low Molecular Weight Phosphotyrosine Protein Phosphatase; LMW-PTP; LMW-PTPase; Adipocyte Acid Phosphatase; Low Molecular Weight Cytosolic Acid Phosphatase; Red Cell Acid Phosphatase 1; ACP1
Species:	Human
Source:	E. coli
Accession:	P24666-2 (A2-H158)
Gene ID:	52
Molecular Weight:	Approximately 18.0 kDa

### PROPERTIES

AA Sequence	A E Q A T K S V L F    V C L G N I C R S P    I A E A V F R K L V    T D Q N I S E N W V I D S G A V S D W N    V G R S P D P R A V    S C L R N H G I H T    A H K A R Q I T K E D F A T F D Y I L C    M D E S N L R D L N    R K S N Q V K T C K    A K I E L L G S Y D P Q K Q L I I E D P    Y Y G N D S D F E T    V Y Q Q C V R C C R    A F L E K A H
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	LMW-PTP (Low Molecular Weight Protein Tyrosine Phosphatase), also known as ACP1, functions as a phosphatase acting on tyrosine phosphorylated proteins, low-molecular-weight aryl phosphates, and both natural and synthetic acyl phosphates. Notably, there are differences in substrate specificity between isoform 1 and isoform 2. It's important to highlight that isoform 2 does not possess phosphatase activity.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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