

LMW-PTP/ACP1 Protein, Human (GST)

Cat. No.:	HY-P74773
Synonyms:	Low Molecular Weight Phosphotyrosine Protein Phosphatase; LMW-PTP; ACP1
Species:	Human
Source:	E. coli
Accession:	AAI06012.1 (M1-H158)
Gene ID:	52
Molecular Weight:	Approximately 40 kDa

PROPERTIES

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 μ m filtered solution of 50 mM Tris, 150 mM NaCl, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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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