



Recombinant Protein Technical Manual

Recombinant Human ACP1/LMW-PTP Protein (His Tag)

RPES1121

Product Data:

Product SKU: RPES1121

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P24666-2

Protein Information:

Molecular Mass: 19.04 kDa

AP Molecular Mass: 18 kDa

Tag: C-His

Bio-activity:

Purity: > 90% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, 10% Glycerol, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: HAAP; 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

Immunogen Information:

Sequence: Ala2-His158

Background:

Low Molecular Weight Phosphotyrosine Protein Phosphatase (LMW-PTP) is a member of the low molecular weight phosphotyrosine protein phosphatase family. LMW-PTP serves as an acid phosphatase and a protein tyrosine phosphatase (PTPase) by hydrolyzing protein tyrosine phosphate to protein tyrosine and orthophosphate. LMW-PTP can be detected in all human tissues, including adipocytes. LMW-PTP is a cytosolic enzyme that regulate cell proliferation and growth of leiomyomas during dephosphorylation of the PDGF receptor. In addition, LMW-PTP plays an important role in the regulation of physiological functions, such as stress resistance and synthesis of the polysaccharide capsule.