

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

Catalog No. PKSH033598

Note: Centrifuge before opening to ensure complete recovery of vial contents.

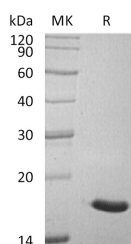
Description

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
Species	Human
Expression Host	E.coli
Sequence	Ala2-His158
Accession	P24666-2
Calculated Molecular Weight	19.0 kDa
Observed molecular weight	18 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein 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/gel packs. Upon receipt, store it immediately at < -20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 8.0.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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

For Research Use Only

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.