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Datasheet for ABIN1097089
ACP1 Protein (AA 2-158) (His tag)

Overview

Quantity:	50 µg
Target:	ACP1
Protein Characteristics:	AA 2-158
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACP1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human LMW-PTP/ACP1 (C-6His)
Sequence:	AEQATKSVLF VCLGNICRSP IAEAVFRKLV TDQNISENWV IDSGAVSDWN VGRSPDPRAV SCLRNHGIHT AHKARQITKE DFATFDYILC MDESNLRLDN RKSNQVKTCK AKIELLGSYD PQKQLIEDP YYGNDSDFFET VYQQCVRCCR AFLEKAHLEH HHHHH
Characteristics:	Recombinant Human Low Molecular Weight Phosphotyrosine Protein Phosphatase/LMW-PTP is produced by our E. coli expression system. The target protein is expressed with sequence (Ala2-His158) of Human LMW-PTP.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	ACP1
Alternative Name:	Low Molecular Weight Phosphotyrosine Protein Phosphatase/LMW-PTP (ACP1 Products)
Background:	<p>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.</p> <p>Alternative Names: 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</p>
Molecular Weight:	19.04 kDa
UniProt:	P24666

Application Details

Restrictions: For Research Use only

Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, 10 % Glycerol, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	<p>Store at < -20°C, stable for 6 months after receipt.</p> <p>Please minimize freeze-thaw cycles.</p>
Expiry Date:	6 months