Active Recombinant Human ALPL Protein, His-tagged

Cat. No. ALPL-0602H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ALPL Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Leu 18 - Ser 502 (Accession # P05186-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Leu 18. The protein is designed as a dimer.
Species	Human
Source	HEK293
ProteinLength	18-502 aa
Description	This gene encodes a member of the alkaline phosphatase family of proteins. There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue non-specific). The first three are located together on chromosome 2, while the tissue non-specific form is located on chromosome 1. The product of this gene is a membrane bound glycosylated enzyme that is not expressed in any particular tissue and is, therefore, referred to as the tissue-nonspecific form of the enzyme. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature enzyme. This enzyme may play a role in bone mineralization. Mutations in this gene have been linked to hypophosphatasia, a disorder that is characterized by hypercalcemia and skeletal defects.
Form	Supplied as 0.2 μm filtered solution in 20 mM Tris, 150 mM NaCl, 20% Glycerol,

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	pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Human ALPL Protein, His Tag at 1 μg/mL (100 μL/well) can bind various dilution ratio of Anti-ALPL Polyclonal Antibody.
Molecular Mass	The protein has a calculated MW of 55.3 kDa. The protein migrates as 65-70 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.1 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: The product MUST be stored at -70 centigrade or lower upon receipt; -70 centigrade for 3 months under sterile conditions. Please avoid repeated freeze-thaw cycles.
Concentration	0.2 mg/mL
Shipping	This product is supplied and shipped with dry ice, please inquire the shipping cost.

GENE INFORMATION

Gene Name	ALPL alkaline phosphatase, liver/bone/kidney [Homo sapiens (human)]
Official Symbol	ALPL
Synonyms	ALPL; alkaline phosphatase, liver/bone/kidney; HOPS; alkaline phosphatase, tissue-nonspecific isozyme; TNSALP; glycerophosphatase; tissue-nonspecific ALP; alkaline phosphomonoesterase; liver/bone/kidney-type alkaline phosphatase; alkaline phosphatase liver/bone/kidney isozyme; TNAP; APTNAP; AP-TNAP; FLJ40094;

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	FLJ93059; MGC161443; MGC167935;
Gene ID	249
mRNA Refseq	NM_000478
Protein Refseq	NP_000469
MIM	171760
UniProt ID	P05186

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