

Recombinant Full Length Human ALPL Protein, C-Flag-tagged

Cat. No. ALPL-192HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ALPL Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	55.5 kDa
AA Sequence	MISPFLVLAIGTCLTNSLVPEKEKDPKYWRDQAQETLKYALELQKLNTNVAKNVIMFLGDGMGVSTVTAA RILKGQLHHNPGEETRLEMDKFPFVALSKTYNTNAQVPDSAGT

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ATAYLCGVKANEGTVGVSAATERSRCN TTQGNEVTSILRWAKDAGKSVGIVTTTRV
 NHATPSAAYAHSAARDWYSDNEMPPEALSQGCKDIAYQLMH NIRDIDVIMGGGRK
 YMYPKNKTDVEYESDEKARGTRLDGLDLVDTWKSFKPRYKHSFIWNRTLLTDP
 HNVDYLLGLFEPGDMQYELNRNNVTDPSSLSEMVVVAIQILRKNPKGFFLLVEGGRID
 HGHHEGKAKQALH EAVEMDRAIGQAGSLTSSEDTLTVVTADHSHVFTFGGYTPRG
 NSIFGLAPMLSDTDKKPFTAILYGNPG YKVVGGERENVSMVDYAHNNYQAQSAV
 PLRHETHGGEDVAVFSKGPMALLHGVHEQNYVPHVMAYAACI
 GANLGHCAPASSAGSLAAGPLLLALALYPLSVLFTTRTRPLEQKLISEEDLAANDILDYK
 DDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Folate biosynthesis, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

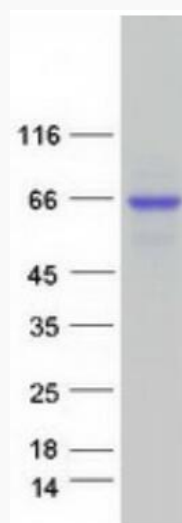
Gene Name [ALPL alkaline phosphatase, biomineralization associated \[Homo sapiens \(human\) \]](#)

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Official Symbol	ALPL
Synonyms	HOPS; HPPA; HPPC; HPPI; HPPO; TNAP; TNALP; APTNAP; TNSALP; AP-TNAP; TNS-ALP
Gene ID	249
mRNA Refseq	NM_000478.6
Protein Refseq	NP_000469.3
MIM	171760
UniProt ID	P05186



Coomassie blue staining of purified ALPL protein.

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