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	MISPFLVLAIGTCLTNSLVPEKEKDPKYWRDQAQETLKYALELQKLNTNVAKNVIMFL GDGMGVSTVTAA RILKGQLHHNPGEETRLEMDKFPFVALSKTYNTNAQVPDSAGT

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

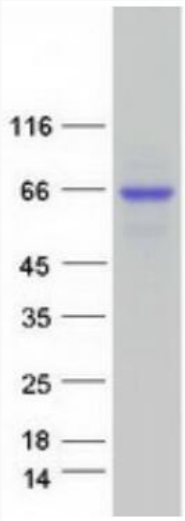
	ATAYLCGVKANEGTVGVSAATERSRCN TTQGNEVTSILRWAKDAGKSVGIVTTTRV NHATPSAAYAHSADRDWYSDNEMPPEALSQGCKDIAYQLMH NIRDIDVIMGGGRK YMYPKNKTDVEYESDEKARGTRLDGLDLVDTWKSFKPRYKHSHFIWNRTELLTLDP HNVDYLLGLFEPGDMQYELNRNNVTDPSLSEMVVVAIQILRKNPKGFFLLVEGGRID HGHHEGKAKQALH EAVEMDRAIGQAGSLTSSEDTLTVVTADHSHVFTFGGYTPRG NSIFGLAPMLSDTDKKPFTAILYGNGPG YKVVGGERENVSMVDYAHNNYQAQSAV PLRHETHGGEDVAVFSKGPMAHLLHGVHEQNYVPHVMAYAACI GANLGHCAPASSAGSLAAGPLLLALALYPLSVLFTRTRPLEQKLISEEDLAANDILDYK 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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