Active Native Human Alkaline Phosphatase

Cat. No. ALPL-5324H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native human ALPL was purified from Human Liver.
Species	Human
Source	Human Liver
Description	Alkaline Phosphatase (ALP) is a hydrolase enzyme responsible for removing phosphate groups in the 5- and 3- positions from many types of molecules, including nucleotides, proteins, and alkaloids. In humans, alkaline phosphatase is present in all tissues throughout the entire body, but is particularly concentrated in liver, bile duct, kidney, bone, and the placenta. The optimal pH for the enzyme activity is pH=10 in standard conditions.
Form	Ammonium Sulfate Suspension
Bio-activity	>25 U/mL
Unit Definition	One unit will convert one micromole of p-nitrophenyl phosphate to p-nitrophenol and phosphate per minute at 37C in the presence of AMP (2-amino-2-methyl-1-propanol) at pH 10.35
Storage	2-8 °C
Concentration	Typically >5 mg protein/mL

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GENE INFORMATION

Gene Name	ALPL alkaline phosphatase, liver/bone/kidney [Homo sapiens]
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 live
Gene ID	249
mRNA Refseq	NM_000478
Protein Refseq	NP_000469
MIM	171760
UniProt ID	P05186
Chromosome Location	1p36.12
Pathway	Endochondral Ossification, organism-specific biosystem; Folate biosynthesis, organism-specific biosystem; Folate biosynthesis, conserved biosystem; Metabolic pathways, organism-specific biosystem; TNF-alpha/NF-kB Signaling Pathway, organism-specific biosystem;
Function	alkaline phosphatase activity; hydrolase activity; metal ion binding;

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