Datasheet for ABIN7194212

ALPL Protein (His tag)

Go to Product page

Overview

Quantity:	50 µg
Target:	ALPL
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ALPL protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Alkaline Phosphatase/ALPL Protein (His Tag)(Active)
Sequence:	Met 1-Ser 502
Characteristics:	A DNA sequence encoding the human tissue-nonspecific alkaline phosphatase (NP_000469.3) (Met 1-Ser 502) was expressed with a C-terminal polyhistidine tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave a fluorogenic substrate, 4-Methylumbelliferyl phosphate (4-MUP).The specific activity is > 50, 000 pmoles/min/µg.

Target Details

Target:	ALPL

Target Details

Alternative Name:	Alkaline Phosphatase/ALPL (ALPL Products)
Background:	Background: Alkaline phosphatase (ALPL) is a hydrolase enzyme responsible for removing phosphate groups from many types of molecules, including nucleotides, proteins, and alkaloids. The process of removing the phosphate group is called dephosphorylation. As the name suggests, alkaline phosphatases are most effective in an alkaline environment. It is sometimes used synonymously as basic phosphatase. Alkaline phosphatases (APs) are ubiquitous in many species, from bacteria to human. Four genes encode AP isoenzymes in humans and rodents. Three AP genes are expressed in a tissue-specific manner (i.e., placental, embryonic, and intestinal AP isoenzymes). Expression of the fourth AP gene is nonspecific to a single tissue and is especially abundant in bone, liver, and kidney. This isoenzyme is also called tissue-nonspecific alkaline phosphatase (TNAP). The enzyme tissue non-specific alkaline phosphatase (TNAP) belongs to the ectophosphatase family. TNAP is present in large amounts in bone in which it plays a role in mineralization. Synonym: Alkaline Phosphatase, Tissue-Nonspecific Isozyme, AP-TNAP, TNSALP, Alkaline Phosphatase Liver/Bone/Kidney Isozyme, ALPL,HOPS,TNAP
Molecular Weight:	55 kDa
NCBI Accession:	NP_000469

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 25 mM Tris, 0.15M NaCl, pH 7.5
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.