

Datasheet for ABIN7596280

ALPL Protein (AA 18-501) (His tag)



[Go to Product page](#)

Overview

Quantity:	500 µg
Target:	ALPL
Protein Characteristics:	AA 18-501
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ALPL protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	LVPEKEK DPKYWRDQAQ ETLKYALELQ KLNTNVAKNV IMFLGDGMGV STVTAARILK GQLHHNPGEE TRLEMDKFPP VALSKTYNTN AQVPDSAGTA TAYLCGVKAN EGTGVGSAAT ERSRCNTTQG NEVTSILRWA KDAGKSVGIV TTTRVNHATP SAAYAHSADR DWYSDNEMPP EALSQGCKDI AYQLMHNIRD IDVIMGGGRK YMYPKNKTDV EYESDEKARG TRLDGLDLVD TWKSFKPRYK HSHFIWNRTE LLTLDPHNVD YLLGLFEPGD MQYELNRNNV TDPSLSEMVV VAIQILRKNP KGFFLLVEGG RIDHGHHEGK AKQALHEAVE MDRAIGQAGS LTSSEDTLTV VTADHSHVFT FGGYTPRGNS IFGLAPMLSD TDKKPFTAIL YGNPGYKVV GGERENVSMV DYAHNNYQAQ SAVPLRHETH GGEDVAVFSK GPMALLHGV HEQNYVPHVM AYAACIGANL GHCAPAS
Purity:	> 95% by SDS-PAGE

Product Details

Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Specific activity is > 40,000 pmol/min/ug and is defined as the amount of enzyme that hydrolyze 1pmole of 4-Methylumbelliferyl phosphate to phosphate and 4-Methylumbelliferone per minute at pH 8.8 at 37C.

Target Details

Target:	ALPL
Alternative Name:	Alkaline Phosphatase/ALPL (ALPL Products)
Background:	ALPL, also known as alkaline phosphatase, tissue-nonspecific isozyme, is one of alkaline phosphatases. Alkaline phosphatase is metabolizes various phosphate compounds and plays a key role in skeletal mineralization and adaptive thermogenesis. There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue-nonspecific). Expression of this protein is nonspecific to a single tissue and is especially abundant in bone, liver, and kidney. It plays an essential role in skeletal and dental mineralization via its ability to hydrolyze extracellular diphosphate, a potent mineralization inhibitor, to phosphate. It thereby promotes hydroxyapatite crystal formation and increases inorganic phosphate concentration. Recombinant human Alkaline Phosphatase/ALPL, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Molecular Weight:	54.3kDa (493aa)
NCBI Accession:	NP_000469

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -

80°C. Avoid repeated freezing and thawing cycles.