

Datasheet for ABIN7597451

ALPL Protein (AA 18-501) (His tag)[Go to Product page](#)

Overview

Quantity:	10 µg
Target:	ALPL
Protein Characteristics:	AA 18-501
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALPL protein is labelled with His tag.

Product Details

Purpose:	Recombinant human ALPL Protein with C-terminal 10xHis tag
Sequence:	ALPL(Leu18-Ser501) 10xHis tag
Purity:	The purity of the protein is greater than 85 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	ALPL
Alternative Name:	ALPL (ALPL Products)
Background:	<p>HOPS, HPPA, HPPC, HPPI, HPPO, TNAP, TNALP, APTNAP, TNSALP, AP-TNAP, TNS-ALP</p> <p>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,</p>

Target Details

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. [provided by RefSeq, Oct 2015]

Molecular Weight: predicted molecular mass of 54.7 kDa after removal of the signal peptide. The apparent molecular mass of ALPL-His is 55-70 kDa due to glycosylation.

UniProt: [P05186](#)

Application Details

Application Notes: Extracellular Domain Proteins (ECD) can be used as:

- Immunogens for antibody drug development
- Reagents used for CAR-T positive cell monitoring
- Reagents for antibody screening and functional testing
- Reagents for antibody affinity measurement

Comment: The protein was made using HEK293 mammalian cell secretion expression system to ensure the close-to-native structures and post-translational modifications of the target protein.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization.

Storage: -20 °C, -80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).
Lyophilized proteins are shipped at ambient temperature.

Expiry Date: 12 months