

**Synonym**

AP-TNAP, APTNAP, HOPS, HPPA, HPPC, HPPI, HPPO, TNALP, TNAP, TNS-ALP, TNSALP

**Source**

Human ALPL Protein, His Tag(ALL-H52H3) is expressed from human 293 cells (HEK293). It contains AA Leu 18 - Ser 502 (Accession # [P05186-1](#)).

Predicted N-terminus: Leu 18

**Molecular Characterization**

**ALPL(Leu 18 - Ser 502)**  
**P05186-1**      **Poly-his**

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 55.3 kDa. The protein migrates as 65-70 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a dimer.

**Endotoxin**

Less than 0.1 EU per  $\mu$ g by the LAL method / rFC method.

**Purity**

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**Formulation**

Supplied as 0.2  $\mu$ m filtered solution in 20 mM Tris, 150 mM NaCl, 20% Glycerol, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

**Shipping**

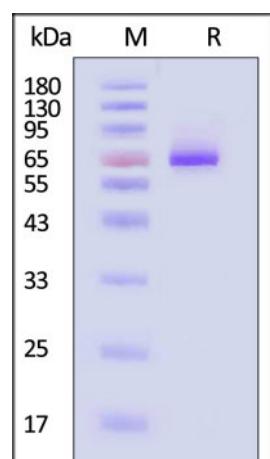
*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

**Storage**

*Please avoid repeated freeze-thaw cycles.*

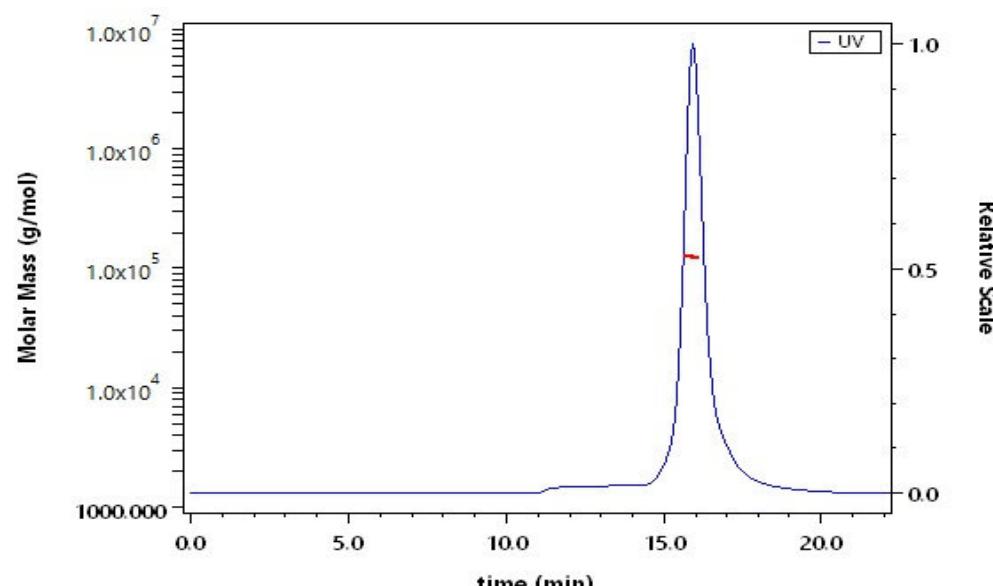
This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

**SDS-PAGE**

Human ALPL Protein, His Tag on SDS-PAGE under reducing (R) condition.

The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

**SEC-MALS**

The purity of Human ALPL Protein, His Tag (Cat. No. ALL-H52H3) is more than 90% and the molecular weight of this protein is around 115-135 kDa verified by SEC-MALS.

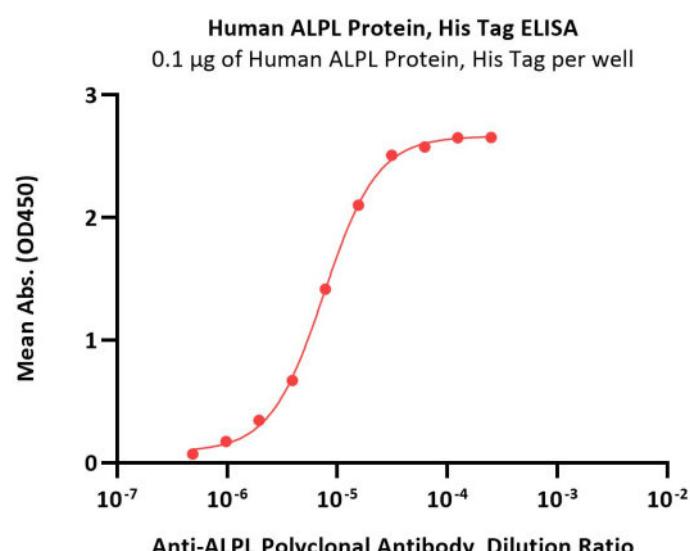
[Report](#)

**Bioactivity-ELISA**

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Immobilized Human ALPL Protein, His Tag (Cat. No. ALL-H52H3) at 1 µg/mL (100 µL/well) can bind various dilution ratio of Anti-ALPL Polyclonal Antibody (QC tested).

### Bioactivity

Measured by its ability to cleave a fluorogenic substrate, 4-Methylumbelliferyl phosphate (4-MUP). The specific activity is >80,000 pmol/min/µg (QC tested).

### Background

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.

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