

**Synonym**

IAP

**Source**

Human ALPI Protein, His Tag(ALI-H52H3) is expressed from human 293 cells (HEK293). It contains AA Val 20 - Asp 503 (Accession # [P09923-1](#)).

Predicted N-terminus: Val 20

**Molecular Characterization**

**ALPI(Val 20 - Asp 503)**  
**P09923-1**      **Poly-his**

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

The protein has a calculated MW of 54.3 kDa. The protein migrates as 60-65 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 1.0 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, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

**Shipping**

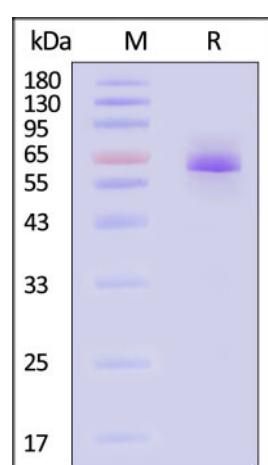
*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

**Storage**

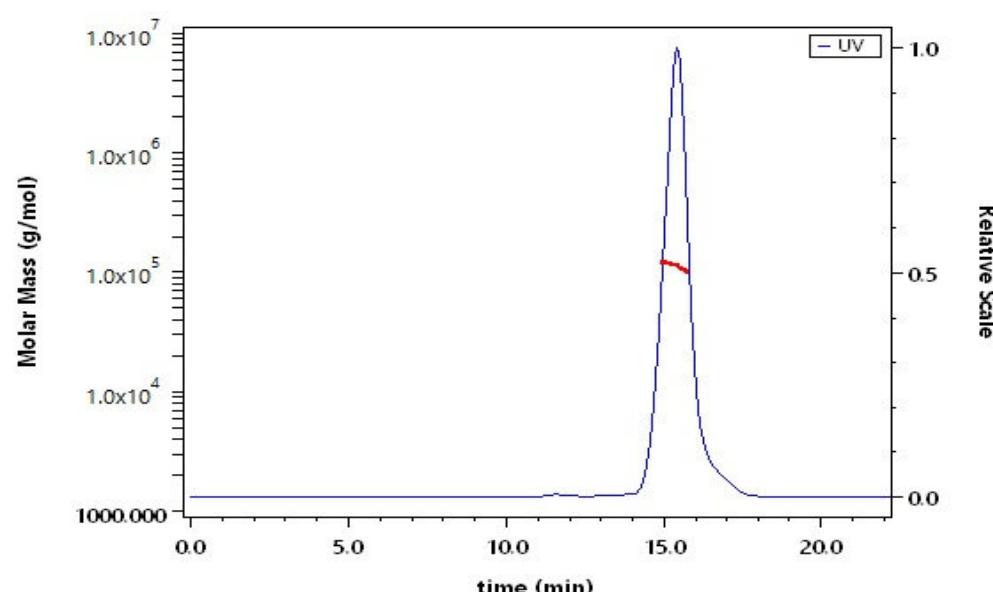
*Please avoid repeated freeze-thaw cycles.*

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 ALPI 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 ALPI Protein, His Tag (Cat. No. ALI-H52H3) is more than 90% and the molecular weight of this protein is around 100-130 kDa verified by SEC-MALS.

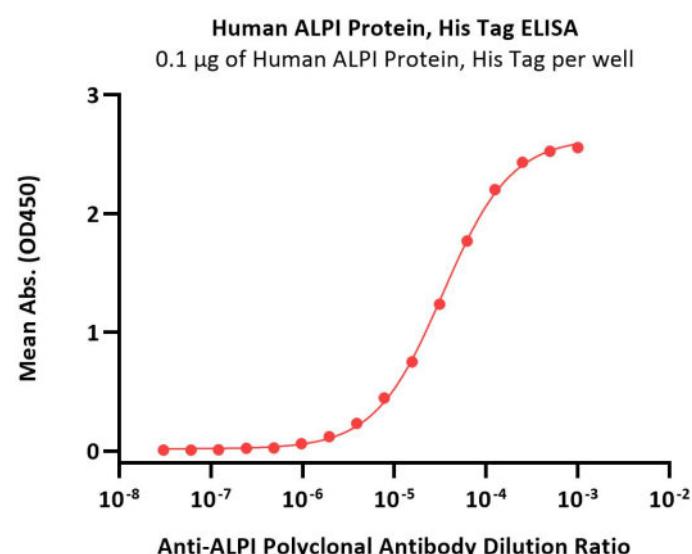
[Report](#)

**Bioactivity-ELISA**

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

### Bioactivity

Measured by its ability to cleave a fluorogenic substrate, 4-Methylumbelliferyl phosphate (4-MUP). The specific activity is >800 pmol/min/µg (QC tested).

### Background

There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue non-specific). The intestinal alkaline phosphatase gene encodes a digestive brush-border enzyme. This enzyme is a component of the gut mucosal defense system and is thought to function in the detoxification of lipopolysaccharide, and in the prevention of bacterial translocation in the gut.

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