


**Synonym**

PLAP

**Source**

Cynomolgus ALPP, His Tag(ALP-C52H3) is expressed from human 293 cells (HEK293). It contains AA Ile 21 - Asp 504 (Accession # [XP\\_045223825.1](#)). Predicted N-terminus: Ile 21

**Molecular Characterization**

**ALPP(Ile 21 - Asp 504)**  
**XP\_045223825.1**      **Poly-his**

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

The protein has a calculated MW of 54.6 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.

**Endotoxin**

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Supplied as 0.2  $\mu$ m filtered solution in 50 mM Tris, 150 mM NaCl, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

**Shipping**

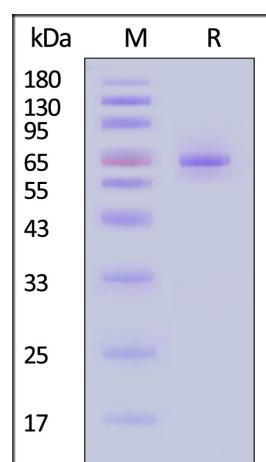
*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

**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**


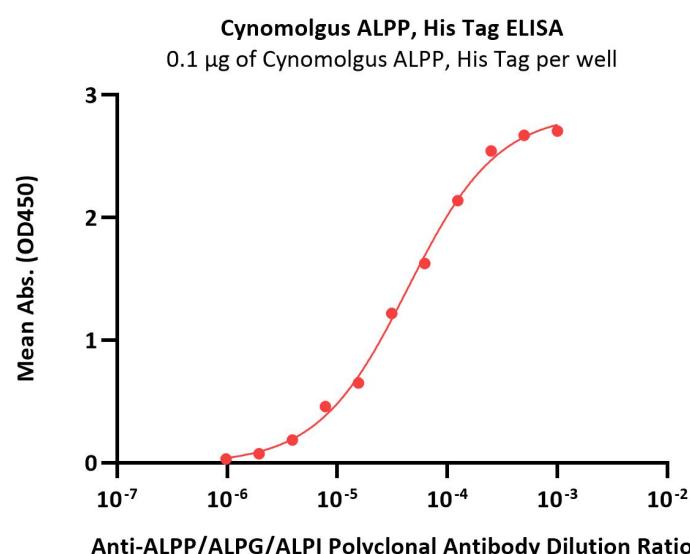
Cynomolgus ALPP, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

**Bioactivity-ELISA**

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Immobilized Cynomolgus ALPP, His Tag (Cat. No. ALP-C52H3) at 1 µg/mL (100 µL/well) can bind various dilution ratio of Anti-ALPP/ALPG/ALPI Polyclonal Antibody (QC tested).

### Bioactivity

Measured by its ability to cleave a fluorogenic substrate, 4-Methylumbelliferyl phosphate (4-MUP). The specific activity is >450 pmol/min/µg (QC tested).

### Background

In most mammals there are four different isozymes: placental (ALPP), germ cell (ALPG), intestinal (ALPI) and tissue non-specific (liver/bone/kidney) (ALPL/TNAP). ALPP is also known as Alkaline phosphatase, placental type and PLAP. Alkaline phosphatase that can hydrolyze various phosphate compounds.

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