

Recombinant Human Alkaline phosphatase (Placental type) /ALPP Protein

Catalog No.: RP03155 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	250	P05187

Tags

C-His

Synonyms

Alkaline phosphatase; PLAP-1; ALPP; PLAP

Product Information

Source	Purification
HEK293 cells	> 95% by Tris-Bis PAGE and HPLC.

Endotoxin

< 1.0 EU/μg of the protein by LAL method.


Formulation

Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Alkaline phosphatase can be considered "our favorite enzyme" for reasons apparent to those who diagnose and treat metabolic bone diseases or who study skeletal biology. Few might know, however, that alkaline phosphatase likely represents the most frequently assayed enzyme in all of medicine. Elevated activity in the circulation is universally recognized as a marker for skeletal or hepatobiliary disease.

Basic Information

Description

Recombinant Human Alkaline phosphatase (Placental type) /ALPP Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ile23-Asp506.

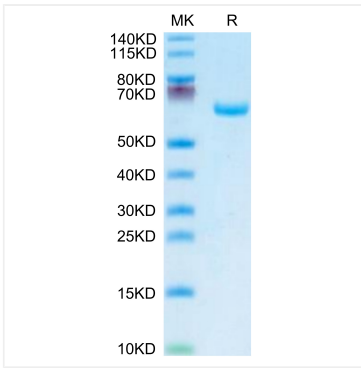
Bio-Activity

Immobilized Human Alkaline Phosphatase (Placental type) , His Tag at 0.5 μg/mL (100 μL/Well) on the plate. Dose response curve for Anti-Alkaline Phosphatase Antibody, hFc Tag with the EC₅₀ of 11.1 ng/mL determined by ELISA.

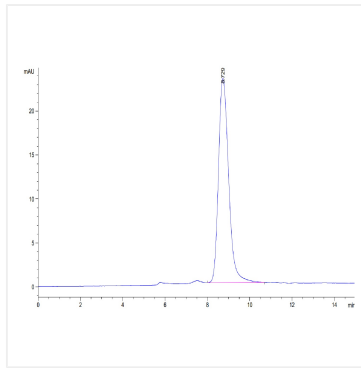
Storage

Store the lyophilized protein at -20°C to -80 °C for 12 months. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

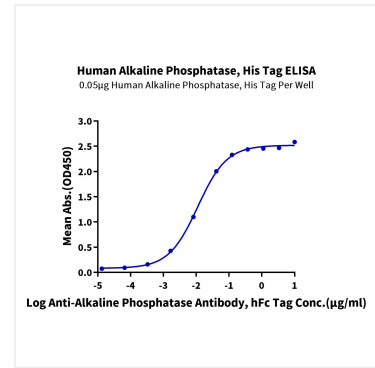
Validation Data



Human Alkaline Phosphatase (Placental type) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human Alkaline Phosphatase (Placental type) is greater than 95% as determined by SEC-HPLC.



Immobilized Human Alkaline Phosphatase (Placental type), His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Anti-Alkaline Phosphatase Antibody, hFc Tag with the EC_{50} of 11.1 ng/mL determined by ELISA.