

Recombinant Human Alkaline phosphatase (Intestinal type)/ALPI Protein

Catalog No.: RP02744 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	248	P09923

Tags

N-His&Flag

Synonyms

ALPI Intestinal-type alkaline phosphatase; IAP; Intestinal alkaline phosphatase;

Product Information

Source

HEK293 cells

Purification

> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Calculated MW

54.5 kDa

Observed MW

63-73 kDa

Endotoxin

Less than 1EU per µg by the LAL method.

Formulation

Reconstitution

Centrifuge the tube 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 (Intestinal type) /ALPI Protein is produced by Expi293 cells expression system. The target protein is expressed with sequence (Val20-Asp503) of Human Alkaline phosphatase (Intestinal type) /ALPI (Accession # P09923) fused with His tag and Flag tag at the N-terminus.

Bio-Activity

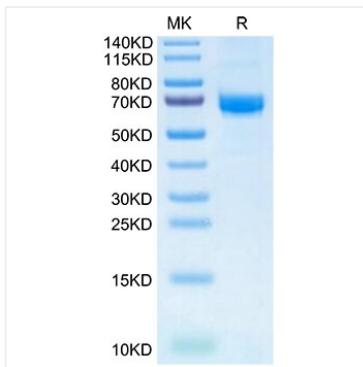
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

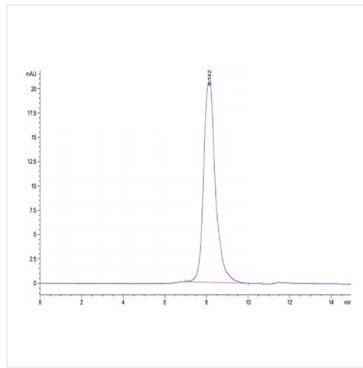
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

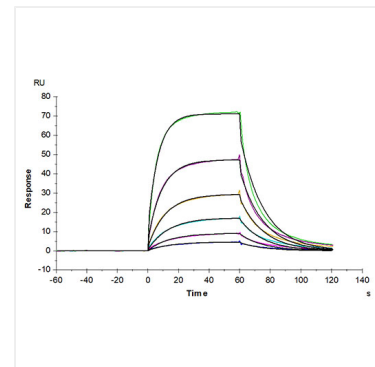
Validation Data



Human Alkaline phosphatase on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human Alkaline phosphatase is greater than 95% as determined by SEC-HPLC.



Anti-Alkaline Phosphatase Antibody captured on CM5 Chip via Protein A can bind Human Alkaline Phosphatase, His Tag with an affinity constant of $0.96 \mu\text{M}$ as determined in SPR assay (Biacore T200).