

Recombinant Human Alkaline phosphatase/tissuenonspecific isozyme/ALPL Protein

Catalog No.: RP01989 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 249 P05186

Tags C-6His

Synonyms

ALPL

ALPL

Alkaline phosphatase; tissuenonspecific isozyme; Alkaline
phosphatase liver/bone/kidney isozyme;

Product Information

Source Purification

HEK293 cells ≥ 90 % as determined by SDS-

PAGE.

Calculated MW Observed MW

54.04 kDa 60-75 kDa

Endotoxin

 $< 0.1 \; \text{EU/}\mu\text{g}$ of the protein by LAL method.

Formulation

Lyophilized from a 0.2 µm filtered solution of 20mM HEPES, 150mM NaCl, 2mM MgSO4, 0.1mM ZnCl2,pH 7.5.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Four distinct genes encode alkaline phosphatases (APs) in humans . The ALPL gene encodes the liver/bone/kidney isozyme, also known as the tissue-nonspecific AP (TNAP). In comparison, ALPI, ALPP and ALPPL2 encode intestinal, placental and placental-like or germ cell APs, respectively. The serum levels of human APs are useful tumor markers . There are many mutations in the ALPL gene, leading to different forms of hypophosphatasia, characterized by poorly mineralized cartilage and bones . The native ALPL is a glycosylated homodimer attached to the membrane through a GPI-anchor.

Basic Information

Description

Recombinant Human Alkaline phosphatase/tissue-nonspecific isozyme/ALPL Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu18-Ala500) of Human Alkaline phosphatase/tissue-nonspecific isozyme/ALPL (Accession #NP 000469.3) fused with His tag at the C-terminus.

Bio-Activity

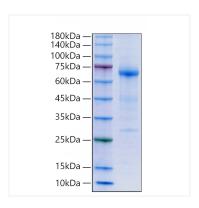
Storage

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



Recombinant Human Alkaline phosphatase/tissue-nonspecific isozyme/ALPL Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.