

# Human Alkaline Phosphatase / ALPL (His Tag) recombinant protein



Catalog Number: 500478

## General Information

### Protein Construction

A DNA sequence encoding the human tissue-nonspecific alkaline phosphatase (NP\_000469.3) (Met 1-Ser 502) was expressed with a C-terminal polyhistidine tag.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to cleave a fluorogenic substrate, 4-Methylumbelliferyl phosphate (4-MUP).

The specific activity is > 50, 000 pmoles/min/μg.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Leu 18

### Molecular Mass

The recombinant human ALPL consists of 496 amino acids and predicts a molecular mass of 55 kDa. As a result of glycosylation, rhALPL migrates as approximately 65 kDa band in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile 25mM Tris, 0.15M NaCl, pH 7.5

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

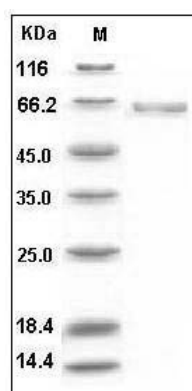
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human Alkaline Phosphatase / ALPL Protein (His Tag) SDS-PAGE