

Human Alkaline Phosphatase / ALPI Protein (Fc Tag)

Catalog Number: 13225-H02H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

IAP; 2010001C14Rik; Akp6; gIAP

Protein Construction:

A DNA sequence encoding the mature form of human ALPI (P09923) (Met 1-Asp 503), without the pro peptide, was fused with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 83 % as determined by SDS-PAGE

Bio Activity:

Measured by its ability to cleave a fluorogenic substrate, 4-Methylumbelliferyl phosphate (4-MUP). The specific activity is > 10,000 pmoles/min/μg.

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: Val 20

Molecular Mass:

The secreted recombinant human ALPI/Fc is a disulfide-linked homodimeric protein. The reduced monomer consists of 725 amino acids and has a predicted molecular mass of 79.5 kDa. The apparent molecular mass of rhALPI /Fc monomer is approximately 90-95 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

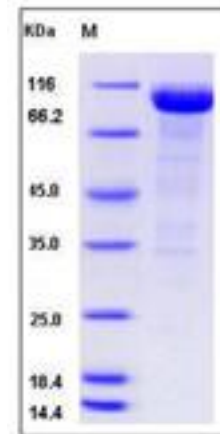
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



References

1. Nakano T, *et al.* (2009) Role of lysophosphatidylcholine in brush-border intestinal alkaline phosphatase release and restoration. *Am J Physiol Gastrointest Liver Physiol.* 297(1): G207-14.
2. Henthorn PS, *et al.* (1987) Nucleotide and amino acid sequences of human intestinal alkaline phosphatase: close homology to placental alkaline phosphatase. *Proc Natl Acad Sci.* 84(5): 1234-8.
3. Oetting WS, *et al.* (2003) Oculocutaneous albinism type 1: the last 100 years. *Pigment Cell Res.* 16(3): 307-11.

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