

Datasheet for ABIN7273853

## Alkaline Phosphatase Protein (ALP) (AA 20-503) (His-DYKDDDDK Tag)



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### 3 Images

#### Overview

Quantity:	100 µg
Target:	Alkaline Phosphatase (ALP)
Protein Characteristics:	AA 20-503
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Alkaline Phosphatase protein is labelled with His-DYKDDDDK Tag.

#### Product Details

Purpose:	Human Alkaline phosphatase (Intestinal type) /ALPI Protein
Sequence:	Val20-Asp503
Characteristics:	Recombinant Human Alkaline phosphatase (Intestinal type) /ALPI Protein is expressed from HEK293 with His tag and Flag tag at the N-Terminus.It contains Val20-Asp503.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 0.96 µM as determined in SPR assay (Biacore T200). See testing image for detail.

## Target Details

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Target:	Alkaline Phosphatase (ALP)
Alternative Name:	Alkaline phosphatase ( <a href="#">ALP Products</a> )
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.
Molecular Weight:	54.5 kDa. Due to glycosylation, the protein migrates to 63-73 kDa based on Tris-Bis PAGE result.
UniProt:	<a href="#">P09923</a>

## Application Details

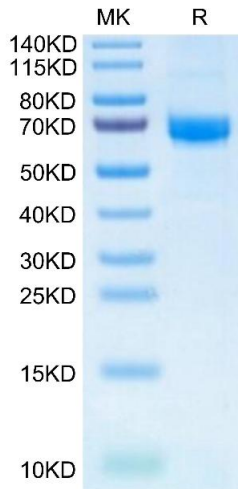
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Restrictions:	For Research Use only
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## Handling

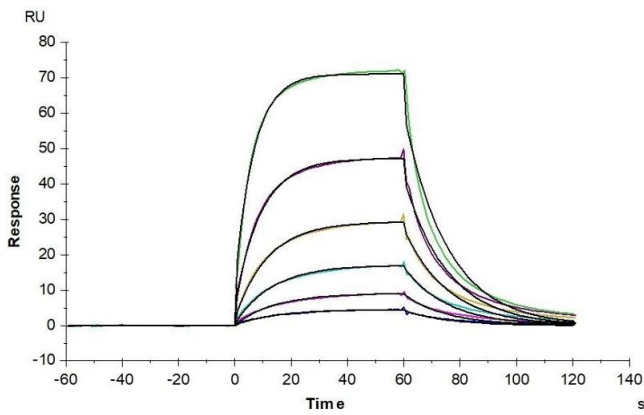
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Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



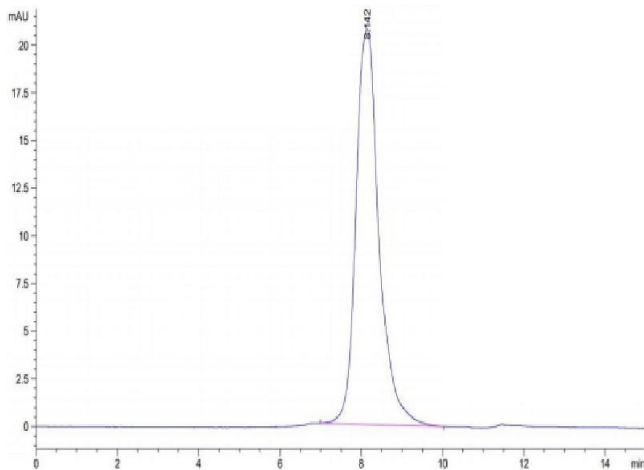
### SDS-PAGE

**Image 1.** Human Alkaline phosphatase on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



### Surface Plasmon Resonance

**Image 2.** 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).



### Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 3.** The purity of Human Alkaline phosphatase is greater than 95 % as determined by SEC-HPLC.