

Biotinylated Human Alkaline Phosphatase (Placental type) /ALPP Protein (Primary Amine Labeling)



Cat. No. APE-HM102B

Description

Source	Recombinant Biotinylated Human Alkaline Phosphatase (Placental type) /ALPP Protein (Primary Amine Labeling) is expressed from HEK293 with His tag at the C-terminus. It contains Ile23-Asp506.
Accession	P05187
Molecular Weight	The protein has a predicted MW of 53.8 kDa. Due to glycosylation, the protein migrates to 55-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

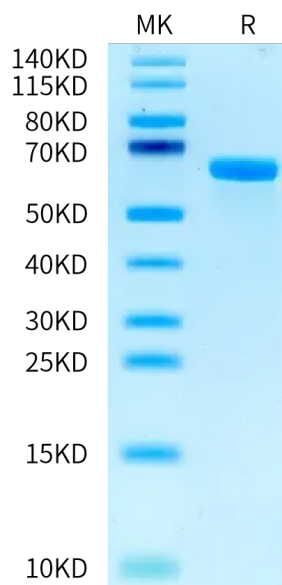
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-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.

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.

Assay Data

Bis-Tris PAGE



Biotinylated Human Alkaline Phosphatase (Placental type) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

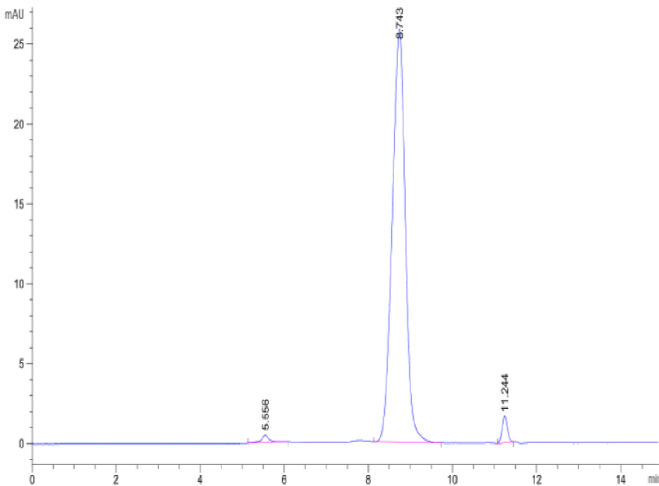
SEC-HPLC

Biotinylated Human Alkaline Phosphatase (Placental type) /ALPP Protein (Primary Amine Labeling)



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Assay Data

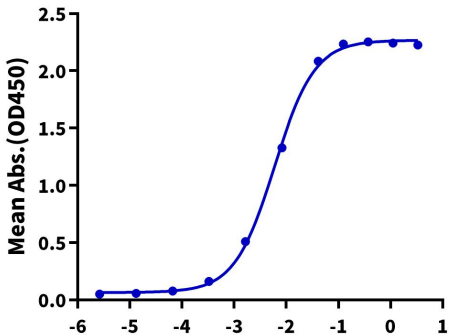


The purity of Biotinylated Human Alkaline Phosphatase (Placental type) is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human Alkaline Phosphatase, His Tag ELISA

0.05µg Biotinylated Human Alkaline Phosphatase, His Tag Per Well



Immobilized Biotinylated Human Alkaline Phosphatase, His Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-Alkaline Phosphatase Antibody, hFc Tag with the EC₅₀ of 6.0ng/ml determined by ELISA.