

Recombinant Mouse Alpl protein, His-tagged

Cat. No. Alpl-1494M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Alpl aa. (Phe18~Arg335 (Accession # P09242)) fused with N-terminal His tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Phe18~Arg335
Description	This gene encodes a preproprotein that is proteolytically cleaved to yield a signal peptide and a proproteins that is subsequently processed to generate the active mature peptide. The encoded protein is a membrane-bound glycosylated enzyme that catalyzes the hydrolysis of phosphate esters at alkaline pH. The mature peptide maintains the ratio of inorganic phosphate to inorganic pyrophosphate required for bone mineralization. Mice that lack this enzyme show symptoms of osteomalacia, softening of the bones. In humans, mutations in this gene are associated with hypophosphatasia, an inherited metabolic bone disease in which deficiency of this enzyme inhibits bone mineralization leading to skeletal defects. Mutations in the mouse gene mirror the symptoms of human hypophosphatasia. A pseudogene of this gene is present on chromosome X. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 37.2kDa.

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Endotoxin	<1.0EU per 1g (determined by the LAL method).
Purity	>95%
Characteristic	The isoelectric point is 7.3.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	Alpl alkaline phosphatase, liver/bone/kidney [Mus musculus (house mouse)]
Official Symbol	Alpl
Synonyms	ALP; Akp2; TNAP; Akp-2; APTNAP; TNSALP; alkaline phosphatase 2, liver; alkaline phosphatase, tissue-nonspecific isozyme
Gene ID	11647

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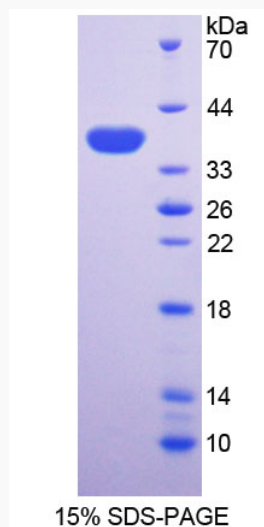
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mRNA Refseq [NM_001287172.1](#)

Protein Refseq [NP_001274101.1](#)

UniProt ID [P09242](#)

SDS-PAGE



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