

Recombinant Mouse Alpl Protein, MYC/DDK-tagged

Cat. No. Alpl-564M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse alkaline phosphatase, liver/bone/kidney (Alpl), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes a preproprotein that is proteolytically cleaved to yield a signal peptide and a proprotein 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.
Molecular Mass	57.5 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name [Alpl alkaline phosphatase, liver/bone/kidney \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Alpl](#)

Synonyms Alpl; alkaline phosphatase, liver/bone/kidney; ALP; Akp2; TNAP; Akp-2; APTNAP; TNSALP; alkaline phosphatase, tissue-nonspecific isozyme; alkaline phosphatase 2, liver; EC 3.1.3.1

Gene ID [11647](#)

mRNA Refseq [NM_007431](#)

Protein Refseq [NP_031457](#)

UniProt ID [P09242](#)

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