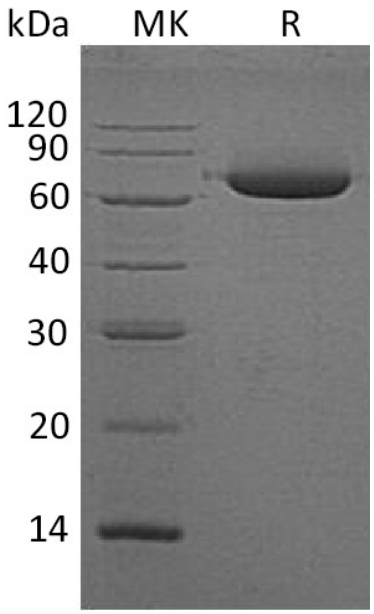
Product Name: Recombinant Human ALPL (C-6His)
Catalog #: PHH0042

Summary

Name	Alkaline Phosphatase/ALPL/ALP/Akp2
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Alkaline Phosphatase, Tissue-Nonspecific Isozyme is produced by our Mammalian expression system and the target gene encoding Leu18-Ser502 is expressed with a 6His tag at the C-terminus.
Accession #	P05186
Host	Human Cells
Species	Human
Predicted Molecular Mass	54.4 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl,1mM DTT,1mM EDTA,500mM NaCl,0.1%Trition X-100,pH 8.0.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image

Product Name: Recombinant Human ALPL (C-6His)
Catalog #: PHH0042



Alternative Names

Alkaline Phosphatase; Tissue-Nonspecific Isozyme; AP-TNAP; TNSALP; Alkaline Phosphatase Liver/Bone/Kidney Isozyme; ALPL

Background

Alkaline Phosphatase, Tissue-Nonspecific Isozyme (ALPL) is a cell membrane protein which belongs to the alkaline phosphatase family. There are at least four distinct but related alkaline phosphatases in humans: intestinal AP (IAP), placental AP(PLAP), germ cell AP (GCAP) and their genes are clustered on chromosome 2, tissue-nonspecific isozyme (TNAP) which gene is located on chromosome 1. Alkaline phosphatases (APs) are dimeric enzymes, it catalyze the hydrolysis of phosphomonoesters with release of inorganic phosphate. The native ALPL is a glycosylated homodimer attached to the membrane through a GPI-anchor. This isozyme may play a role in skeletal mineralization. Mutations in ALPL gene have been linked directly to different forms of hypophosphatasia,characterized by poorly mineralized cartilage and bones, and this disorder can vary depending on the specific mutation since this determines age of onset and severity of symptoms.

Note

For Research Use Only , Not for Diagnostic Use.