

Product information

Alpl, 19-503aa

Mouse, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3469

Full name: Alkaline phosphatase, tissue-nonspecific isozyme

NCBI Accession No.: NP_031457

Synonyms: Alpl, Akp-2, Akp2, ALP, APTNAP, TNAP, TNSALP, HOPS

Description: Alpl, also known as alkaline phosphatase, tissue-nonspecific isozyme, is one of alkaline phosphatases. There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue-nonspecific). The product of this gene is a membrane-bound glycosylated enzyme that is not expressed in any particular tissue and is, therefore, referred to as the tissue-nonspecific form of the enzyme. A proposed function of this form of the enzyme is matrix mineralization. Recombinant mouse Alpl, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight: 54.5kDa (493aa)
50-70kDa (SDS-PAGE under reducing conditions.)

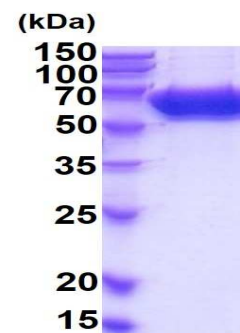
Predicted N terminal: Val19

Purity: > 95% by SDS - PAGE.

Concentration: 0.5mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: < 1.0 EU per 1µg of protein (determined by LAL method)

Biological activity: Specific activity is > 46,000 pmol/min/ug and is defined as the amount of enzyme that hydrolyze 1pmole of 4-Methylumbelliferyl phosphate to phosphate and 4-Methylumbelliferone per minute at pH 8.8 at 25C.



15% SDS-PAGE (3ug)

Sequences of amino acids:

VPEKERDPSY WRQQAQETLK NALKLQKLNT NVAKNVIMFL GDGMGVSTVT AARILKQQLH HNTGEETRLE MDKFPFVALS KTYNTNAQVP
 DSAGTATAYL CGVKANEGTV GVSAAATERTR CNTTQGNEVT SILRWAKDAG KSVGIVTTTR VNHPATPSAAY AHSADRDWYS DNEMPEALS
 QGCKDIAYQL MHNIKDIDVI MGGGRKYMYP KNRTDVEYEL DEKARGTRL DGLDLISIWKS FKPRHKHSHY VWNRTPELLAL DPSRVDYLLG
 LFEPGDMQYE LNRNNLTDPS LSEMVEVALR ILTKNLKGF LLVEGGRIDH GHHEGKAKQA LHEAVEMDQA IGKAGAMTSQ KDTLTVVTAD
 HSHVFTFGGY TPRGNSIFGL APMVSDTOKK PFTAILYNG PGYKVV DGER ENVSMVDYAH NNYQAQSAVP LRHETHGGED VAVFAKGPMA
 HLLHGVEQN YIPVMAYAS CIGANLDHCA WAGSGLEHHH HHH

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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General references:

Whyte MP. *et al.*, (1995) *J. Clin Invest.* 95:1440-1445

Brun-Heath I. *et al.*, (2011) *Cell Tissue Res.* 343: 521-536.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

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Manufactured for:

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