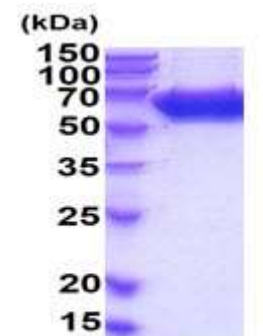


Alkaline phosphatase, mouse recombinant

CATALOG NO:	P1098-10 10 µg
ALTERNATE NAMES:	Alkaline phosphatase, tissue-nonspecific isozyme, Alpl, Akp-2, Akp2, ALP, APTNAP, TNAP, TNSALP, HOPS
CONCENTRATION:	0.5 mg/ml (determined by Absorbance at 280nm)
SOURCE:	Alkaline phosphatase recombinant protein was expressed in insect cell (Baculovirus) and fused to His-tag at C-terminus (19-503aa).
PURITY:	> 95% by SDS-PAGE
MOL. WEIGHT:	This protein is fused with 6x His tag at C terminus and the protein has a calculated MW of 54.5 kDa (493aa). Predicted N terminal is Val19. Protein runs at 50-70 kDa in SDS-PAGE under reducing conditions.
ENDOTOXIN LEVEL:	< 1.0 EU per 1µg of protein (determined by LAL method)
FORM:	Liquid
FORMULATION:	In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol
STORAGE CONDITIONS:	Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store at -70°C. Avoid repeated freeze/thaw cycles.
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.
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.
SEQUENCE:	VPEKERDPSY WRQQAQETLK NALKLQKLNT NVAKNVIMFL GDGMGVSTVT AARILKQQLH HNTGEETRLE MDKFPFVALS KTYNTNAQVP DSAGTATAYL CGVKANEGTV GVSAATERTR CNTTQGNEVT SILRWAKDAG KSVGIVTTTR VNHATPSAAY AHSADRDWYS DNEMPPEALS QGCKDIAYQL MHNIDIDVI MGGGRKYMYP KNRTDVEYEL DEKARGTRLD GLDLISIWKS FKPRHKHSHY VWNRTPELLAL DPSRVDYLLG LFEPGDMQYE LNRNNLTDPS LSEMVEVALR ILTKNLKGGF LLVEGGRIDH

HSHVFTFGGY TPRGNSIFGL APMVSDTDKK PFTAILYGNG PGYKVDGER
ENVMVDYAH NNYQAQSAVP LRHETHGGED VAVFAKGPMA HLLHGVHEQN
YIPHVMAVAS CIGANLDHCA WAGSGLEHHH HHH



15% SDS-PAGE (3ug)

Mouse recombinant Alkaline phosphatase

RELATED PRODUCT:

- Alkaline Phosphatase, Calf Intestine (**Cat. No. 7585-10**)
- Alkaline phosphatase, placental, human recombinant (**Cat. No. P1044-10**)
- Shrimp Alkaline Phosphatase, Recombinant (**Cat. No. k422-500**)
- Alkaline Phosphatase Activity Fluorometric Assay Kit (**Cat. No. 9229-50**)
- Alkaline Phosphatase Activity Colorimetric Assay Kit (**Cat. No. K412-50**)

FOR RESEARCH USE ONLY! Not to be used on humans.