
Product Data Sheet

Product Name: ALPL Mouse

Cat. No.: GP21399

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Alpl;Akp-2; Akp2; ALP; APTNAP; TNAP; TNSALP; HOPS; AP-TNAP; Alkaline phosphatase 2.		
Amino Acid Sequence	<p>VPEKERDPSY WRQQAQETLK NALKLQKLNT NVAKNVIMFL GDGMGVSTVTAARILKGQLH HNTGEETRLE MDKFPFVALS KTYNTNAQVP DSAGTATAYL CGVKANEGTV GVSAATERTRCNTTQGNEVT SILRWAKDAG KSVGIVTTTR VNHATPSAAY AHSADRDWYS DNEMPPEALS QGCKDIAYQLMHNKIDIDVI MGGGRKYMYP KNRTDVEYEL DEKARGTRLD GLDLISIWKS FKPRHKHSHY VWNRTPELLALDPSRVDYLLG LFEPGDMQYE LNRNNLTDP LSEMVEVALR ILTKNLKGF LLVEGGRIDH GHHEGKAKQALHEAVEMDQA IGKAGAMTSQ KDTLTVVTAD HSHVFTFGGY TPRGNSIFGL APMVSDTDK PFTAILYGNGPGYKVV DGER ENVSMVDYAH NNYQAQSAVP LRHETHGGED VAVFAKG PMA HLLHGVHEQN YIPVMAYASCIGANLDHCA WAGSGLEHHH HHH.</p>		
Formulation	ALPL protein solution (0.5mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Alkaline Phosphatase Liver/Bone/Kidney (Alpl) is a part of the alkaline phosphatases family which comprises 4 related alkaline phosphatases. Alpl is a membrane-bound glycosylated enzyme which is not expressed in any particular tissue. Alpl takes part in skeletal mineralization.

Biological Activity

Specific activity is > 46,000 pmol/min/ug and is defined as the amount of enzyme that hydrolyze 1 pmole of 4-Methylumbelliferyl phosphate to phosphate and 4-

Caution: Product has not been fully validated for medical applications. For research use only.

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Methylumbelliferone per minute at pH 8.8 at 25C.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ALPL produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 493 amino acids (19-503 a.a.) and having a molecular mass of 54.5kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). ALPL is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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