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32-6676: ALPL Mouse

Application : Functional Assay
Alternative Name : Alpl, Akp-2, Akp2, ALP, APTNAP, TNAP, TNSALP, HOPS, AP-TNAP, Alkaline phosphatase 2.

Description

Source: Sf9, Baculovirus cells.
Sterile Filtered colorless solution.
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.
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.

Product Info

Amount :	1 µg / 5 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	ALPL protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.
Storage condition :	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.
Amino Acid :	VPEKERDPSY WRQQAQETLK NALKLQKLNT NVAKNVIMFL GDGMGVSTVT AARILKGQLH HNTGEETRLE MDKFPFVALS KTYNTNAQVP DSAGTATAYL CGVKANEGTV GVSAATERTR CNTTQGNEVT SILRWAKDAG KSVGIVTTTR VNHATPSAAY AHSADRDWYS DNEMPPEALS QGCKDIAYQL MHNIKDIDVI MGGGRKYMYP KNRTDVEYEL DEKARGTRLD GLDLISIWKS FKPRHKHSHY VWNRTELLAL DPSRVDYLLG LFEPGDMQYE LNRNNLTDPS LSEMVEVALR ILTKNLKGFF LLVEGGRIDH GHHEGKAKQA LHEAVEMDQA IGKAGAMTSQ KDTLTVVTAD HSHVFTFGGY TPRGNSIFGL APMVSDTDKK PFTAILYGNG PGYKVVDGER ENVSMVDYAH NNYQAQSAVP LRHETHGGED VAVFAKGPMA HLLHGVHEQN YIPHVMAYAS CIGANLDHCA WAGSGLEHHH HHH.

Application Note

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.

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