

Alkaline Phosphatase Placental Active Protein | ALPP active protein

Recombinant Human Alkaline Phosphatase Placental, BioActive

CATALOG # AAA38066	HOST Sf9, Baculovirus cells
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PRODUCT SYNONYMS

Alkaline Phosphatase Placental; Recombinant Human Alkaline Phosphatase Placental; BioActive; ALPP Active; ALPP Human Active; Alkaline Phosphatase Placental Human Recombinant; 3 ALPP; Alkaline phosphatase Regan isozyme; Placental alkaline phosphatase 1; PLAP-1; ALP; PLAP; Alkaline phosphatase placental type; EC 3.1.3.1; ALPP active protein

PRODUCT SPECIFICATIONS

Host	Sf9, Baculovirus cells
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	Sterile filtered colorless solution. ALPP protein solution (0.5mg/ml) containing Phosphate-Buffered Saline (pH7.4) and 10% glycerol.
Sequence	<u>ADLMIIPVEEENP DFWNREAAEA LGAAKKLQPA QTAAKNLIIF LGDGMGVSTV TAARILKGQK KDKLGPELPL</u> <u>AMDRFPYVAL SKTYNVDKHV PDGATATAY LCGVKGNFQT IGLSAAARFN QCNTTRGNEV ISVMNRAKKA</u> <u>GKSVGVT TTT RVQHASPAGT YAHTVNRNWY SDADVPASAR QEGCQDIATQ LISNMDIDVI LGGGRKYMFR</u> <u>MGTPDPEYPD DYSQGGTRLD GKNLVQEWLA KRQGARYVWN RTELMQASLD PSVTHLMGLF EPGDMKYEIH</u> <u>RDSTLDPSLM EMTEAALRLL SRNPRGFFLF VEGGRIDHGH HESRAYRALT ETIMFDDAIE RAGQLTSEED</u> <u>TLSLVTADHS HVFSFGGYPL RGSSIFGLAP GKARDRKAYT VLLYGNGPGY VLKDGARPDV TESESGSPEY</u> <u>RQQSAVPLDE ETHAGEDVAV FARGPQAHLV HGVQEQT FIA HVMAFAACLE PYTACDLAPP AGTTDDHH HHHH</u>
Biological Activity	Specific activity is >2,500unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0nmole of pnitrophenyl phosphate (pNPP) per minute at pH7.5 at 37°C.
Preparation and Storage	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.

ADDITIONAL INFORMATION

Related Product Information for ALPP active protein	Placental alkaline phosphatase also known as PLAP is a membranal siaglycoprotein enzyme typicallyfoundin high concentration in syncytiotrophoblasts in the placenta amid the 3th trimester of gestation. The expression of PLAP was at firstconsidered to be onlyin the term placenta, though, a human PLAP-like variant has been found,thathas more than 85% homology with PLAP itself. PLAP is expressed strictly in normal term placenta, endocervix & fallopian tube and in ovarian and proximal gastrointestinal tumors. It is also widely expressed in germ cell tumors and more recently found in seminomas. ALPP Human produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 494 amino acids (23-506 a.a.) and having a molecular mass of 53.9kDa. ALPP is expressed with a 10 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.
Product Categories/Family for ALPP active protein	ENZYMES

NCBI AND UNIPROT INFORMATION

NCBI GI #	94721246
NCBI GeneID	250

NCBI Accession #	NP_001623.3
NCBI GenBank Nucleotide #	NM_001632.3
UniProt Accession #	P05187 ; P05188 ; P06861 ; Q53S78 ; Q96DB7
NCBI Official Full Name	alkaline phosphatase, placental type preproprotein
NCBI Official Synonym Full Names	alkaline phosphatase, placental
NCBI Official Symbol	ALPP
NCBI Official Synonym Symbols	ALP; PALP; PLAP; PLAP-1
NCBI Protein Information	alkaline phosphatase, placental type; Regan isozyme; glycerophosphatase; alkaline phosphomonoesterase; placental alkaline phosphatase 1; alkaline phosphatase Regan isozyme
UniProt Protein Name	Alkaline phosphatase, placental type
UniProt Gene Name	ALPP
UniProt Synonym Gene Names	PLAP; PLAP-1
UniProt Entry Name	PPB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/sf9-baculovirus-cells-alpp-active-protein/alkaline-phosphatase-placental/38066>