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32-6675: ALPP Human, Active

Application : Functional Assay

Alternative Name : 3 ALPP, Alkaline phosphatase Regan isozyme, Placental alkaline phosphatase 1, PLAP-1, ALP, PLAP, Alkaline phosphatase placental type, EC 3.1.3.1, PLAP-1, Alkaline phosphatase Regan isozyme.

Description

Source: Sf9, Baculovirus cells.
Sterile Filtered colorless solution.
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 & Â 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 Â 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 Info

Amount : 2 µg / 10 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Content : ALPP protein solution (0.5mg/ml) containing 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 : ADLMIIPVEE ENPDFWNREA AEALGAAKKL QPAQTAAKNL IIFLGDGMGV STVTAARILK GQKKDKLGPE LPLAMDRFPY VALSKTYNVD KHVPDSGATA TAYLCGVKGN FQTIGLSAAA RFNQCNTTRG NEVISVMNRA KKAGKSVGVV TTTRVQHASP AGTYAHTVNR NWYSDADVPA SARQEGCQDI ATQLISNMDI DVILGGGRKY MFRMGTPDPE YPDDYSQGGT RLDGKNLVQE WLAKRQGARY VWNRTELMQA SLDPSVTHLM GLFEPGDMKY EIHRDSTLDP SLMEMTEAAL RLLSRNPRGF FLFVEGGRID HGHHESRAYR ALTETIMFDD AIERAGQLTS EEDTLSLVTA DHSHVFSFGG YPLRGSSIFG LAPGKARDRK AYTVLLYGNG PGYVLKDGAR PDVTESESGS PEYRQQSAVP LDEETHAGED VAVFARGPQA HLVHGVQEQT FIAHVMAFAA CLEPYTACDL APPAGTTDHH HHHH.

Application Note

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 pH 7.5 at 37C.