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32-6643: ACPP Mouse

Application :	Functional Assay
Alternative Name :	acid phosphatase, prostate, ACP3, ACP-3, ACPP, EC 3.1.3.2, PAP, Prostatic Acid Phosphatase, prostatic acid phosphatase, 5-nucleotidase, 5'-NT, Acid phosphatase 3, Ecto-5'-nucleotidase, Fluoride-resistant acid phosphatase, FRAP, Thiamine monophosphatase, TMPase, A030005E02Rik, Lap, PAP, Ppal.

Description

Source: Sf9, Baculovirus cells.
Sterile Filtered colorless solution.
Prostatic Acid Phosphatase or ACPP is part of a family of proteins called histidine acid phosphatase. ACPP enhances the hydrolyzation of many phosphate monoesters and proteins that are phosphorylated. In order to function best, ACPP needs a range of range of 4-6 pH, furthermore, L(+)-tartrate inhibits ACPP's catalyzation. This enzyme can act as a lipid phosphatase as well and can inhibit lysophosphatidic acid in seminal plasma.
ACPP Mouse produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 356 amino acids (32-381 aa) and having a molecular mass of 41.3kDa.ACPP is fused to a 6 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 :	The ACPP solution (0.5mg/ml) contains 10% Glycerol and Phosphate-Buffered Saline (pH 7.4).
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 :	KELKFVTLVF RHGDRGPIET FPTDPITESS WPQGFGQLTQ WGMEQHYELG SYIRKRYGRF LNDTYKHDQI YIRSTDVDRT LMSAMTNLAA LFPPEGISIW NPRLLWQPIP VHTVSLSEDR LLYLPFRDCP RFEELKSETL ESEEFLKRLH PYKSFLDTLS SLSGFDDQDL FGIWSKVYDP LFCESVHNFT LPSWATEDAM IKLKELSELS LLSLYGIHKQ KEKSRLQGGV LVNEILKNMK LATQPQKYKK LVMYSAHDTT VSGLQMALDV YNGVLPPYAS CHMMELYHDK GGHFVEMYYR NETQNEPYPL TLPGCTHSCP LEKFAELLDP VISQDWATEC MATSSHQGRN HHHHHH.

Application Note

Specific activity is >80,000 unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0nmole of pnitrophenyl phosphate (pNPP) per minute at pH 5.0 at 37C.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.