Active Recombinant Mouse Acpp Protein, His-tagged

Cat. No. Acpp-042M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Prostatic Acid Phosphatase/ACPP protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect cells
Description	A non-specific tyrosine phosphatase that dephosphorylates a diverse number of substrates under acidic conditions (pH 4-6) including alkyl, aryl, and acyl orthophosphate monoesters and phosphorylated proteins. Has lipid phosphatase activity and inactivates lysophosphatidic acid in seminal plasma.
Form	Liquid
Bio-activity	Specific activity is >80,000 unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 5.0 at 37 centigrade.
Molecular Mass	41.3 kDa
AA Sequence	KELKFVTLVFRHGDRGPIETFPTDPITESSWPQGFGQLTQWGMEQHYELGSYIRKR YGRFLNDTYKHDQIYIRSTDVDRTLMSAMTNLAALFPPEGISIWNPRLLWQPIPVHTV SLSEDRLLYLPFRDCPRFEELKSETLESEEFLKRLHPYKSFLDTLSSLSGFDDQDLFG IWSKVYDPLFCESVHNFTLPSWATEDAMIKLKELSELSLLSLYGIHKQKEKSRLQGGV

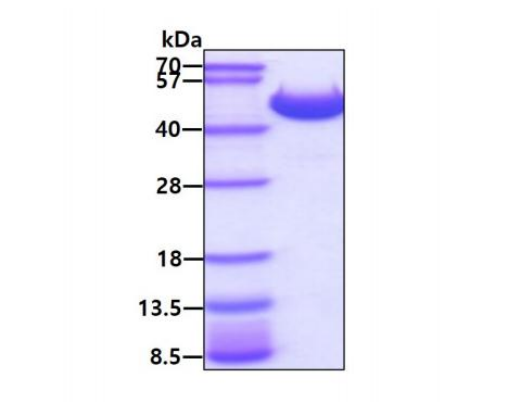
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	LVNEILKNMKLATQPQKYKKLVMYSAHDTTVSGLQMALDVYNGVLPPYASCHMMELYHDKGGHFVEMYYRNETQNEPYPLTLPGCTHSCPLEKFAELLDPVISQDWATECMATSSHQGRN
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -121 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	Acpp acid phosphatase, prostate [Mus musculus (house mouse)]
Official Symbol	Acpp
Synonyms	Acpp; acid phosphatase, prostate; Lap; PAP; Acp3; FRAP; Ppal; 5'-NT; A030005E02Rik; prostatic acid phosphatase; 5'-nucleotidase; TMPase; acid phosphatase 3; ecto-5'-nucleotidase; fluoride-resistant acid phosphatase; lysosomal acid phosphatase; thiamine monophosphatase; EC 3.1.3.2; EC 3.1.3.5
Gene ID	56318
mRNA Refseq	NM_019807

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Protein Refseq	NP_062781
UniProt ID	Q8CE08
SDS-PAGE	 3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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