

Active Recombinant Mouse Acpp Protein, His-tagged

Cat. No. Acpp-002M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Acpp Protein (32-381aa) with His tag was expressed in insect cells.
Species	Mouse
Source	Insect Cells
ProteinLength	32-381aa
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 >80000 unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0 nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 5.0 at 37 centigrade.
Molecular Mass	41.3kDa (356aa)
AA Sequence	KELKFVTLVFRHGDRGPIETFPTDPITESSWPQGFGQLTQWGMEQHYELGSYIRKR YGRFLNDTYKHDQIYIRSTDVDRTLMSAMTNLAALFPPEGISIWNPRLWQPVPVHTV SLSEDRLLYLPRDCPRFEELKSETLESEEFLKRLHPYKSFLDTLSSLSGFDDQDLFG

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IWSKVYDPLFCESVHNFTLPSWATEDAMIKLKELSELSLLSLYGIHKQKEKSRLQGGV
 LVNEILKNMKLATQPQKYKCLVMYSAHDTTVSGLQMALDVYNGVLPPYASCHMMEL
 YHDKGGHFVEMYRNETQNEPYPLTLPGCTHSCPLEKFAELLDPVISQDWATECMA
 TSSHQGRN

Endotoxin < 1 EU per 1 g 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 -80 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/mL (determined by Absorbance at 280nm)

Storage Buffer In 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](#)

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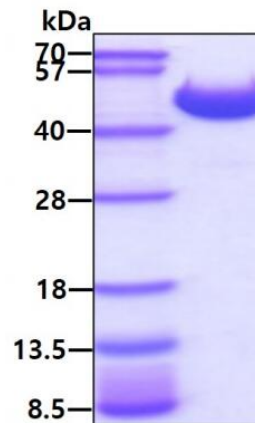
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mRNA Refseq [NM_019807](#)

Protein Refseq [NP_062781](#)

UniProt ID [Q8CE08](#)

SDS-PAGE



3 g by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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