

# Recombinant mouse Prostatic Acid Phosphatase/ACPP protein

Catalog Number: ATGP3953

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

32-381aa

### UniProt No.

Q8CE08

### NCBI Accession No.

NP\_062781

### Alternative Names

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

## PRODUCT SPECIFICATION

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### Molecular Weight

41.3kDa (356aa)

### Concentration

0.5mg/ml (determined by Absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological 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 37C.

### Tag

His-Tag

### Application

SDS-PAGE, Enzyme Activity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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## BACKGROUND

### Description

ACPP, also known as Prostatic Acid Phosphatase, is a member of histidine acid phosphatase family. Prostatic Acid Phosphatase/ACPP catalyzes the hydrolysis of a variety of phosphate monoesters, including phosphorylated proteins. The activity optimum of Prostatic Acid Phosphatase/ACPP is in the pH range of 4 - 6, and the activity is inhibited by L(+)-tartrate. It has also lipid phosphatase activity and inactivates lysophosphatidic acid in seminal plasma. 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.

### Amino acid Sequence

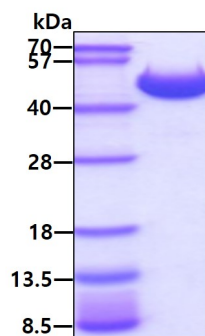
KELKFVTLVF RHGDRGIET FPTDPITSS WPQGFGLTQ WGMEQHYELG SYIRKRYGRF LNDTYKHDQI YIRSTDVDR  
LMSAMTNLAA LFPPEGISIW NPRLWQPIP VHTVLSLSEDR LLYLPFRDCP RFEELKSETL ESEFLKRLH PYKSFLDTLS  
SLSGFDDQDL FGIWSKVYDP LFCESVHNFT LPSWATEDAM IKLKELSELS LLSLYGIHKQ KEKSRLQGGV LVNEILKNMK  
LATQPQKYKK LVMYSAHDTT VSGLQMALDV YNGVLPPYAS CHMMELYHDK GGHFVEMYR NETQNEPYPL TLPGCTHSCP  
LEKFAELLDV VISQDWATEC MATSSHQGRN <HHHHHH>

### General References

Lin, M.F. and G.M. Clinton (1986) *Biochem. J.* 235:351-357.  
Veeramani, S. et al.(2005) *Endocr. Relat. Cancer* 12:805-822.

## DATA

### SDS-PAGE



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