

# Recombinant human Prostatic Acid Phosphatase/ACPP protein

Catalog Number: ATGP3390

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

33-386aa

### UniProt No.

P15309

### NCBI Accession No.

NP\_001090.2

### Alternative Names

Prostatic acid phosphatase isoform PAP, ACPP, 5-NT, ACP-3, ACP3, 5-NT, 5-nucleotidase, Acid phosphatase prostate, ACP 3, ACP3, acpP Ecto-5-nucleotidase, PAP, PPAP\_HUMAN, Prostatic acid phosphatase, Thiamine monophosphatase, TMPase

## PRODUCT SPECIFICATION

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### Molecular Weight

41.8 kDa (360aa)

### 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 > 100,000unit/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 isoform PAP, is a type I integral membrane protein of the plasma membrane and lysosomes, and a secreted form also exists. The concentration of ACPP is elevated in the circulation of prostate cancer patients, making the enzyme a marker for the progression of prostate cancer. Recombinant human ACPP, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

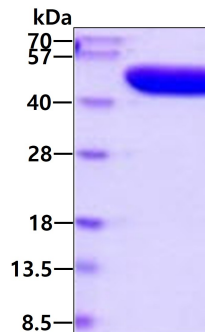
KELKFVTLVF RHGDRSPIDT FPTDPIKESS WPQGFQQLTQ LGMEQHYELG EYIRKRYRKF LNESYKHEQV YIRSTDVDR  
LMSAMTNLAA LFPPEGVSIW NPILLWQPIP VHTVPLSEDQ LLYLPFRNCP RFQELESETL KSEEFQKRLH PYKDFIATLG  
KLSGLHGQDL FGIWSKVYDP LYCESVHNFT LPSWATEDTM TKLRELSLS LLSLYGIHKQ KEKSRLQGGV LVNEILNHMK  
RATQIPSYKK LIMYSAHDTT VSGLQMALDV YNGLLPPYAS CHLTELYFEK GEYFVEMYR NETQHEPYPL MLPGCSPSCP  
LERFAELVGP VIPQDWSTEC MTTNSHQGTE DSTD<HHHHHH>

### General References

Chuang TD., et al. (2010) J Biol Chem. 285:23598-23606.  
Taira A., et al. (2007) Oncology. 21:1003-1010.

## DATA

### SDS-PAGE



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