

# Recombinant human Prostatic Acid Phosphatase/ACPP protein

Catalog Number: ATGP2956

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

33-386aa

### UniProt No.

P15309

### NCBI Accession No.

AAH08493

### Alternative Names

Acid phosphatase prostate, Acid phosphatase, prostate, PAP, ACP3, ACP-3

## PRODUCT SPECIFICATION

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### Molecular Weight

43.2 kDa (375aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### 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.

## BACKGROUND

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### Description

ACPP, also known as Acid phosphatase, prostate. ACPP is 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. It has lipid phosphatase activity and inactivates lysophosphatidic acid in seminal plasma. Recombinant human ACPP, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

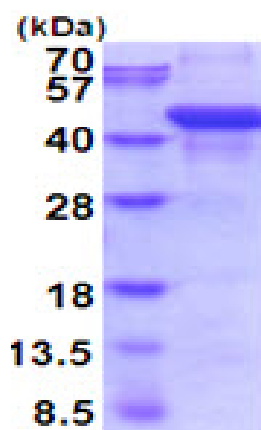
MGSSHHHHHH SSSLVPRGSH MKELKFVTLV FRHGDRSPID TFPTDPIKES SWPQGFQQLT QLGMEQHYEL GEYIRKRYRK  
FLNESYKHEQ VYIRSTDVDR TLMSAMTNLA ALVPEGVSI WNPILLWQPI PVHTVPLSED QLLYLPRNC PRFQELESET  
LKSEEFQKRL HPYKDFIATL GKLSGLHGQD LFGIWSKVYD PLYCESVHNF TLPSRATEDT MTKLRELSL SLLSLYGIHK  
QKEKSRLQGG VLVNEILNHM KRATQIPSYK KLIMYSAHDT TVSGLQMALD VYNGLLPPYA SCHLTELYFE KGEYFVEMY  
RNETQHEPYP LMLPGCSPSC PLERFAELVG PVIPQDWSTE CMTTNSHQGT EDSTD

## General References

Sharief F.S.,et al. (1992) Biochem. Biophys. Res. Commun. 184:1468-1476

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)