Recombinant human Prostatic Acid Phosphatase/ACPP protein

Catalog Number: ATGP3390

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
33-386aa

UniProt No.
P15309

NCBI Accession No.
NP_001090

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

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

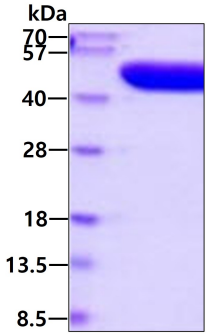
KELKFVTLVF RHGDRSPIDT FPTDPIKESS WPQGFGQLTQ LGMEQHYELG EYIRKRYRKF LNESYKHEQV YIRSTDVDRT LMSAMTNLAA LFPPEGVSIW NPILLWQPIP VHTVPLSEDQ LLYLPFRNCP RFQELESETL KSEEFQKRLH PYKDFIATLG KLSGLHGQDL FGIWSKVYDP LYCESVHNFT LPSWATEDTM TKLRELSELS LLSLYGIHKQ KEKSRLQGGV LVNEILNHMK RATQIPSYKK LIMYSAHDTT VSGLQMALDV YNGLLPPYAS CHLTELYFEK GEYFVEMYYR 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.