

Recombinant Human acid phosphatase, prostate Protein, His&Flag tagged

Cat. No. ACPP-222H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant human ACP3/ACPP protein (P15309-1) (Lys 33-Gln 379) with both His, Flag tag at the C-terminus was expressed in HEK293.

Species

Human

Source

HEK293

ProteinLength

33-379aa

Description

This gene encodes an enzyme that catalyzes the conversion of orthophosphoric monoester to alcohol and orthophosphate. It is synthesized under androgen regulation and is secreted by the epithelial cells of the prostate gland. An alternatively spliced transcript variant encoding a longer isoform has been found for this gene. This isoform contains a transmembrane domain and is localized in the plasma membrane-endosomal-lysosomal pathway. 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.

Tag

C-His&Flag

Molecular Mass

43 kDa

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Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

Gene Name	ACPP acid phosphatase, prostate [Homo sapiens (human)]
Official Symbol	ACPP
Synonyms	ACPP; acid phosphatase, prostate; prostatic acid phosphatase; ACP 3; ACP3; TMPase; 5-nucleotidase; ecto-5-nucleotidase; thiamine monophosphatase; prostatic acid phosphatase; PAP; 5-NT; ACP-3;
Gene ID	55
mRNA Refseq	NM_001099
Protein Refseq	NP_001090
MIM	171790

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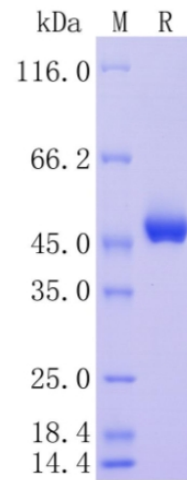
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UniProt ID

P15309

**Protein on SDS-
PAGE under
reducing (R)
condition.**



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