

# Recombinant rat Prostatic Acid Phosphatase/ACPP protein (His tag)



Catalog Number: PDER100086

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

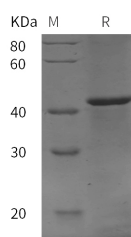
## Description

<b>Synonyms</b>	Prostatic acid phosphatase; Acp3; Acid phosphatase 3; Fluoride-resistant acid phosphatase; Protein tyrosine phosphatase ACP3; Thiamine monophosphatase (TMPase)
<b>Species</b>	rat
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Lys 32-Leu 381
<b>Accession</b>	P20646
<b>Calculated Molecular Weight</b>	38.4 kDa
<b>Observed molecular weight</b>	43 kDa
<b>Tag</b>	N-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

ACPP (Acid phosphatase, prostate; also PAP and ACP3) is a 48-52 kDa glycoprotein member of the histidine acid phosphatase family of enzymes. It exists as a 95-100 kDa nondisulfide-linked homodimer that hydrolyzes phosphate esters under low pH to generate free phosphate. ACPP is expressed by prostate epithelium and pain-detecting spinal cord neurons. In the spinal cord, ACPP dephosphorylates AMP.

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