

## Active Recombinant Human PRCP protein, His-tagged

Cat. No. PRCP-06H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human PRCP protein, fused to His-tag, was expressed in HEK293.

**Species** Human

**Source** HEK293

**ProteinLength** 22-496aa

**Description**

PRCP, also known as prolylcarboxypeptidase, is a member of the peptidase S28 family of serine exopeptidases. This protein is proteolytically processed to generate the mature lysosomal prolylcarboxypeptidase. This enzyme cleaves C-terminal amino acids linked to proline in peptides such as angiotension 2, 3 and des-Arg9 bradykinin. The cleavage occurs at acidic pH, but the enzyme activity is retained with some substrates at neutral pH. It has been shown to be an activator of the cell matrix-associated prekallikrein. The importance of angiotension 2, one of the substrates of this enzyme, in regulating blood pressure and electrolyte balance suggests that PRCP may be related to essential hypertension. Recombinant human PRCP, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

**Form** Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol.

**Bio-activity** Specific activity is > 3,000 pmol/min/μg, and is defined as the amount of enzyme that convert 1.0 pmole of Z-Pro-Ala-OH per minute at pH 4.0 at 25 centigrade.

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<b>Molecular Mass</b>	54.3 kDa
<b>AA Sequence</b>	LRPALRALGS LHLPTNPTSL PAVAKNYSVL YFQQKVDHFG FNTVKTFNQR YLVADKYWKK NGGSILFYTG NEGDIWFCN NTGFMWDVAE ELKAMLVFAE HRYYGESLPF GDNSFKDSRH LNFLTSEQAL ADFAELIKHL KRTIPGAENQ PVIAIGGSYG GMLAAWFRMK YPHMVVGALA ASAPIWQFED LVPCGVFMKI VTTDFRKSGP HCSESIHRSW DAINRLSNTG SGLQWLTGAL HLCSPLOTSQD IQHLKDWISE TWWNLAMVDY PYASNFLQPL PAWPIKVVCC YLKNPNVSDS LLLQNIQAL NVYYNYSGQV KCLNISETAT SSLGTLGWSY QACTEVVMPF CTNGVDDMFE PHSWNLKELS DDCFQQWGV PRPSWITMY GKNISSHTN IVFSNGELDP WSGGGVTKDI TDTLVAVTIS EGAHHLDLRT KNALDPMSVL LARSLEVRHM KNWIRDFYDS AGKQ
<b>Endotoxin</b>	< 1 EU per 1ug of protein (determined by LAL method).
<b>Purity</b>	> 95%
<b>Applications</b>	SDS-PAGE, Enzyme Activity
<b>Storage</b>	Can be stored at 2 centigrade to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	0.25 mg/ml
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PRCP prolylcarboxypeptidase [ Homo sapiens (human) ]
<b>Official Symbol</b>	PRCP

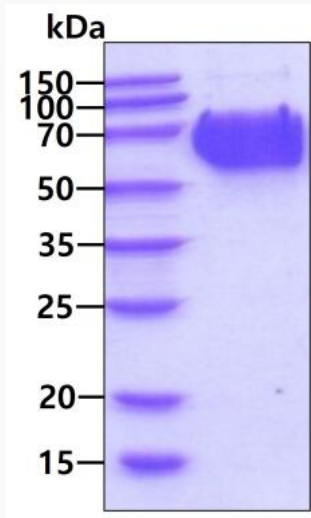
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<b>Synonyms</b>	Prolylcarboxypeptidase; HUMPCP; PCP; lysosomal Pro-X carboxypeptidase isoform1; Angiotensinase C; Lysosomal carboxypeptidase C; Proline carboxypeptidase
<b>Gene ID</b>	<a href="#">5547</a>
<b>mRNA Refseq</b>	<a href="#">NM_005040</a>
<b>Protein Refseq</b>	<a href="#">NP_005031</a>
<b>MIM</b>	<a href="#">176785</a>
<b>UniProt ID</b>	<a href="#">P42785</a>

**SDS-PAGE**



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

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