

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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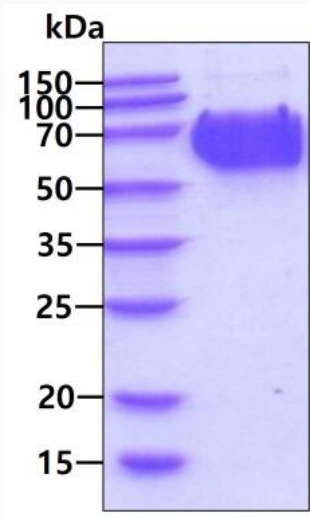
 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	54.3 kDa
AA Sequence	LRPALRALGS LHLPTNPTSL PAVAKNYSVL YFQQKVDHFG FNTVKTFNQR YLVADKYWKK NGGSILFYTG NEGDIWFCN NTGFMWDVAE ELKAMLVFAE HRYYGESLPF GDNSFKDSRH LNFLTSEQAL ADFAELIKHL KRTIPGAENQ PVIAIGGSYG GMLAAWFRMK YPHMVVGALA ASAPIWQFED LVPCGVFMKI VTTFDRKSGP HCSESIHRSW DAINRLSNTG SGLQWLTGAL HLCSPLTSQD IQHLKDWISE TWVNLAMVDY PYASNFLQPL PAWPIKVVCQ YLKNPNVSDS LLLQNIFQAL NVYYNYSQGV KCLNISETAT SSLGTLGWSY QACTEVVMPF CTNGVDDMFE PHSWNLKELS DDCFQQWQVR PRPSWITTM Y GGKNISHTN IVFSNGELDP WSGGGVTKDI TDTLVAVTIS EGAHHLDLRT KNALDPMSVL LARSLEVRHM KNWIRDFYDS AGKQ
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method).
Purity	> 95%
Applications	SDS-PAGE, Enzyme Activity
Storage	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.
Concentration	0.25 mg/ml
GENE INFORMATION	
Gene Name	PRCP prolylcarboxypeptidase [Homo sapiens (human)]
Official Symbol	PRCP

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Synonyms	Prolylcarboxypeptidase; HUMPCP; PCP; lysosomal Pro-X carboxypeptidase isoform1; Angiotensinase C; Lysosomal carboxypeptidase C; Proline carboxypeptidase
Gene ID	5547
mRNA Refseq	NM_005040
Protein Refseq	NP_005031
MIM	176785
UniProt ID	P42785
SDS-PAGE	 3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.