

Datasheet for ABIN7596272

## PRCP Protein (AA 22-496) (His tag)



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### Overview

Quantity:	250 µg
Target:	PRCP
Protein Characteristics:	AA 22-496
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PRCP protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

### Product Details

Sequence:	LRPALRALGS LHLPTNPTSL PAVAKNYSVL YFQQKVDHFG FNTVKTFNQR YLVADKYWKK NGGSILFYTG NEGDIWFN NTGFMWDVAE ELKAMLVFAE HRYYGESLPF GDNSFKDSRH LNFLTSEQAL ADFAELIKHL KRTIPGAENQ PVIAIGGSYG GMLAAWFRMK YPHMVVGALA ASAPIWQFED LVPCGVFMKI VTDFRKSGP HCSSEIHRWS DAINRLSNTG SGLQWLTGAL HLCSP LTSQD IQHLKDWISE TWVNLAMVDY PYASNFLQPL PAWPIKVVCQ YLKNPNVSDS LLLQNIFQAL NVYYNYSGQV KCLNISEAT SSLGLTGWYS QACTEVVMPF CTNGVDDMFE PHSWNLKELS DDCFQQWGV PRPSWITMY GGKNISHTN IVFSNGELDP WSGGGVTKDI TDTLVAVTIS EGAHHLDLRT KNALDPMSVL LARSLEVRHM KNWIRDFYDS AGKQ
Purity:	> 95% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)

## Product Details

Biological Activity Comment: 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 25C.

## Target Details

Target:	PRCP
Alternative Name:	PRCP ( <a href="#">PRCP Products</a> )
Background:	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.
Molecular Weight:	54.3kDa (481aa)
NCBI Accession:	<a href="#">NP_005031</a>

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.