

# Recombinant Full Length Human PRCP Protein

Cat. No. PRCP-396HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human PRCP with N terminal proprietary tag; Predicted MW 80.63 kDa.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	496 amino acids
<b>Description</b>	The protein encoded by this gene is a lysosomal prolylcarboxypeptidase, which cleaves C-terminal amino acids linked to proline in peptides such as angiotension II, III and des-Arg9-bradykinin. The cleavage occurs at acidic pH, but the enzyme activity is retained with some substrates at neutral pH. This enzyme has been shown to be an activator of the cell matrix-associated prekallikrein. The importance of angiotension II, one of the substrates of this enzyme, in regulating blood pressure and electrolyte balance suggests that this gene may be related to essential hypertension. Alternatively spliced transcript variants encoding distinct isoforms have been observed.
<b>Form</b>	Liquid
<b>Molecular Mass</b>	80.630kDa inclusive of tags
<b>AA Sequence</b>	MGRRALLLLLLSFLAPWATIALRPALRALGSLHLPTNPTS LPAVAKNYSVLYFQQKV DHFGFNTVKTFNQRYLVADKYWK KNGGSILFYTGNEGDIIWFCNNTGFMWDVAEE

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LKAMLVFA EHRYYGESLPFGDNSFKDSRHLNFLTSEQALADFAELIKH LKRTIPGAE  
 NQPVIAIGGSYGGMLAAWFRMKYPHMMVVGAL AASAPIWQFEDLVPCGVFMKIVTTD  
 FRKSGPHCSESIHRS WDAINRLSNTGSGGLQWLTGALHLCSPLOTSQDIQHLKDWIS E  
 TWVNLAMVDYPYASNFLQPLPAWPIKVVCCQYLKNPNVSD SLLLQNIFQALNVYYNY  
 SGQVKCLNISEATSSSLGTLGWS YQACTEVVMPFCTNGVDDMFEPHSWNLKELSD  
 DCFQQWGV RPRPSWITTMYGKKNISSHTNIVFSNGELDPWSSGGGVTKD ITDTLVA  
 VTISEGAHHLDLRRTKNALDPMSVLLARSLEVRH MKNWIRDFYDSAGKQH

**Purity** Proprietary Purification

**Storage** Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

**Storage Buffer** pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

## GENE INFORMATION

**Gene Name** PRCP prolylcarboxypeptidase (angiotensinase C) [ Homo sapiens ]

**Official Symbol** PRCP

**Synonyms** PRCP; prolylcarboxypeptidase (angiotensinase C); lysosomal Pro-X carboxypeptidase; HUMPCP; PCP

**Gene ID** 5547

**mRNA Refseq** NM\_005040

**Protein Refseq** NP\_005031

**MIM** 176785

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