

Recombinant Full Length Human PRCP Protein

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

SPECIFICATION

Product Overview	Recombinant full length Human PRCP with N terminal proprietary tag; Predicted MW 80.63 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	496 amino acids
Description	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.
Form	Liquid
Molecular Mass	80.630kDa inclusive of tags
AA Sequence	MGRRALLLLLLSFLAPWATIALRPALRALGSLHLPTNPTS LPAVAKNYSVLVYFQQKV DHFGFNTVKTFNQRYLVADKYWK KNGGSILFYTGNEGDIIWFCNNTGFMWDVAEE

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LKAMLVFA EHRYYGESLPFGDNSFKDSRHLNFLTSEQALADFAELIKH LKRTIPGAE
 NQPVIAIGGSYGGMLAAWFRMKYPHMMVVGAL AASAPIWQFEDLVPCGVFMKIVTTD
 FRKSGPHCSESIHRS WDAINRLSNTGSGQLQWLTGALHLCSPLOTSQDIQHLKDWIS E
 TWVNLAMVDYPYASNFLQPLPAWPIKVVCQYLKNPNVSD SLLLQNIFQALNVYYNY
 SGQVKCLNISETATSSLGLTGWS YQACTEVVMPFCTNGVDDMFEPHSWNLKELSD
 DCFQQWGV RPRPSWITTMYGKKNISSHTNIVFSNGELDPWSGGGVTKD ITDTLVA
 VTISEGAHHLDLRTKNALDPMSVLLARSLEVRH 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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UniProt ID

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