

Recombinant Human PRCP protein, His-tagged

Cat. No. PRCP-3113H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRCP(Leu22-His496a) fused with His tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Leu22-His496
Description	Lysosomal Pro-X Carboxypeptidase (PRCP) belongs to the peptidase S28 family. PRCP is detected in many tissues, with highest levels observed in placenta, lung, and liver. It is also present in the heart, brain, pancreas, and kidney. PRCP exists as a homodimer. PRCP cleaves C-terminal amino acids linked to proline in peptides such as angiotensin II, III and des-Arg9-bradykinin. This cleavage occurs at acidic pH, but enzymatic activity is retained with some substrates at neutral pH. PRCP has been shown to be an activator of the cell matrix-associated prekallikrein.
Form	Supplied as a 0.2 µm filtered solution of 20mM NaAc-HAc, 150mM NaCl, 10%Glycerol, pH4.5.
AA Sequence	LRPALRALGSLHLPTNPTSLPAVAKNYSVLYFQQKVDHFGFNTVKTFNQRYLVADKY WKKNGGSI LFYTGNEGDIIWFCNNTGFMWDVAEELKAMLVFAEHRYYGESLPFGD NSFKDSRHLNFLTSEQAL ADFAELIKHLKRTIPGAENQPVIAIGGSYGGMLAAWFRM KYPHMVVGALAASAPIWQFEDLVPCG VFMKIVTTDFRKSGPHCSESIHRSWDAINR LSNTGSGLQWLTGALHLCSPLTSQDIQHLKDWISE TWVNLAMVDYPYASNFLQPLP

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AWPIKVVVCQYLKNPNVSDSLLLQNIFQALNVYYNYSGQVKCLNI SETATSSLGLTLGW
 SYQACTEVVMPFCTNGVDDMFEPHSWNLKELSDDCFQQWGVRRPSPWITMY G
 GKNISSHTNIVFSNGELDPWSSGGVTKDITDTLVAVTISEGAHHLDLRRTKNALDPMSV
 LLARSL EVRHMKNWIRDFYDSAGKQHVDHHHHHH

Endotoxin Less than 0.1 ng/g (1 IEU/g) as determined by LAL test.

Purity Greater than 95% as determined by reducing SDS-PAGE.

Storage Store at < -20 centigrade, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

GENE INFORMATION

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

Official Symbol [PRCP](#)

Synonyms PRCP; prolylcarboxypeptidase (angiotensinase C); lysosomal Pro-X carboxypeptidase; HUMPCP; PCP; angiotensinase C; proline carboxypeptidase; lysosomal carboxypeptidase C; prolylcarboxypeptidase isoform 1 preproprotein; MGC2202;

Gene ID [5547](#)

mRNA Refseq [NM_005040](#)

Protein Refseq [NP_005031](#)

MIM [176785](#)

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UniProt ID	P42785
Chromosome Location	11q14
Pathway	Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem; Hemostasis, organism-specific biosystem; Intrinsic Pathway, organism-specific biosystem; Protein digestion and absorption, organism-specific biosystem; Protein digestion and absorption, conserved biosystem;
Function	peptidase activity; protein binding; serine-type carboxypeptidase activity; serine-type peptidase activity;

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