

Recombinant Full Length Human PRCP Protein, GST-tagged

Cat. No. PRCP-31107TH 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	Wheat Germ
ProteinLength	1-496 a.a.
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.
Molecular Weight	80.630kDa inclusive of tags
Tissue specificity	Highest levels in placenta, lung and liver. Also present in heart, brain, pancreas and kidney.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MGRRALLLLLLSFLAPWATIALRPALRALGSLHLPTNPTS LPAVAKNYSVLVFQQKV DHFGFNTVKT FNQRYLVADKYWK KNGGSILFYTGNEGDIIWFCNNTGFMWDVAEE LKAMLVFA EHRYYGESLPFGDNSFKDSRHLNFLTSEQALADFAELIKH LKRTIPGAE NQPVIAIGGSYGGMLAAWFRMKYPHMMVVGAL AASAPIWQFEDLVPCGVFMKIVTTD FRKSGPHCSESIHRS WDAINRLSNTGSGLQWLTGALHLCSP LTSQDIQHLKDWIS E TWVNLAMVDYPYASNFLQPLPAWPIKVVCQYLKNPNVSD SLLLQNIFQALNVYYNY SGQVKCLNISE TATSSLGTLGWS YQACTEVVMPFCTNGVDDMFEPHSWNLKELSD DCFQQWGV RPRPSWITTM YGGKNISSHTNIVFSNGELDPWSGGGVTKD ITDTLVA VTISEGAHHLDLRTKNALDPMSVLLARSLEVRH MKNWIRDFYDSAGKQH
Sequence Similarities	Belongs to the peptidase S28 family.

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

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mRNA Refseq	NM_005040
Protein Refseq	NP_005031
MIM	176785
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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