

Recombinant Full Length Human PRCP Protein, GST-tagged

Cat. No. PRCP-31107TH Lot. No. (See product label)

SPECIFICATION

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|---------------------------|---|
| 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 | <p>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.</p> |
| 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 -80°C. Avoid freeze / thaw cycles. |
| Sequences of amino acids | <p>MGRRALLLLLLSFLAPWATIALRPALRALGSLHLPTNPTS LPAVAKNYSVLVYFQQKV DHFGFNTVKTFNQRYLVADKYWK KNGGSILFYTGNEGDIIWFCNNTGFMWDVAEE LKAMLVFA EHRYYGESLPFGDNSFKDSRHLNFLTSEQALADFAELIKH LKRTIPGAE NQPVIAIGGSYGGMLAAWFRMKYPHMMVVGAL AASAPIWQFEDLVPCGVFMKIVTTD FRKSGPHCSESIHRS WDAINRLSNTGSGLQWLTGALHLCSPLTSQDIQHLKDWIS E TWVNLAMVDYPYASNFLQPLPAWPIKVVQCQYLKNPNVSD SLLLQNIQALNVYYNY SGQVKCLNISEATSSSLGLTGWY YQACTEVVMPFCTNGVDDMFEPHSWNLKELSD DCFQQWGV RPRPSWITTMYGKKNISSHTNIVFSNGELDPWSSGGVTKD ITDTLVA VTISEGAHHLDLRRTKNALDPMSVLLARSLEVRH MKNWIRDFYDSAGKQH</p> |
| Sequence Similarities | Belongs to the peptidase S28 family. |

GENE INFORMATION

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|------------------------|---|
| 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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