

Recombinant Human PRCP protein, His & T7-tagged

Cat. No. PRCP-6727H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human PRCP aa. (Asp108~Val376 (Accession # P42785)) fused with N-terminal His & T7 tag was produced in E. coli cells. |
| Species | Human |
| Source | E.coli |
| ProteinLength | Asp108~Val376 |
| Description | <p>This gene encodes a member of the peptidase S28 family of serine exopeptidases. The encoded preproprotein is proteolytically processed to generate the mature lysosomal prolylcarboxypeptidase. This enzyme 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. A pseudogene of this gene has been identified on chromosome 2. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed.</p> |
| Form | Freeze-dried powder |
| Molecular Mass | Predicted Molecular Mass: 33.8kDa. |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-----------------------|---|
| Endotoxin | <1.0EU per 1ug (determined by the LAL method) |
| Purity | >95% |
| Characteristic | The isoelectric point is 6.4. |
| Applications | SDS-PAGE; WB; ELISA; IP. |
| Stability | The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition. |
| Storage | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. |
| Storage buffer | Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl. |
| Reconstitution | Reconstitute in sterile PBS, pH7.2-pH7.4. |

GENE INFORMATION

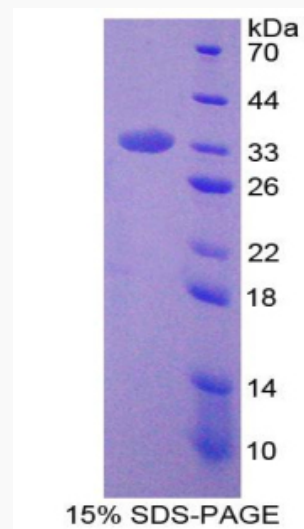
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|------------------------|---|
| Gene Name | PRCP prolylcarboxypeptidase [Homo sapiens (human)] |
| Official Symbol | PRCP |
| Synonyms | PCP; HUMPCP; angiotensinase C; lysosomal carboxypeptidase C; proline carboxypeptidase; lysosomal Pro-X carboxypeptidase |

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| Gene ID | 5547 |
| mRNA Refseq | NM_001319214.1 |
| Protein Refseq | NP_001306143.1 |
| UniProt ID | P42785 |

SDS-PAGE

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