

Recombinant Human PRCP protein, His & T7-tagged

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

SPECIFICATION

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	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.8kDa.

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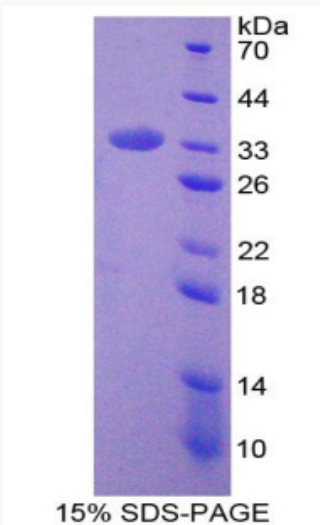
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Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 6.4.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate 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	
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	 15% SDS-PAGE