



# Recombinant Human Lysosomal Pro-X carboxypeptidase (PRCP)

<b>Product Code</b>	CSB-EP018636HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P42785
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	KNYSV LYFQQKVDHF GFNTVKTFNQ RYLVADKYWK KNGGSILFYT GNEGDIWFEC NNTGFMWDVA EELKAMLVFA EHRYYGESLP FGDNSFKDSR HLNFLTSEQA LADFAELIKH LKRTIPGAEN QPVI AIGGSY GGMLAAWFRM KYPHMVVGAL AASAPIWQFE DLVPCGVFMK IVTTDFRKSG PHCSESIHRS WDAINRLSNT GSGLQWLTGA LHLCSP LTSQ DIQHLKDWIS ETWVNLAMVD YPYASNFLQP LPAWPIKVVC QYLKNPNVSD SLLLQNI FQA LNVYYNYSGQ VKCLNISETA TSSLGTLGWS YQACTEVVMP FCTNGVDDMF EPHSWNLKEL SDDCFQQWGV RPRPSWITM YGGKNISSHT NIVFSNGELD PWSGGGVTKD ITDTLVAVTI SEGAAHLDLR TKNALDPMSV LLARSLEVRH MKNWIRDFYD SAGKQH
<b>Source</b>	E.coli
<b>Target Names</b>	PRCP
<b>Protein Names</b>	Recommended name: Lysosomal Pro-X carboxypeptidase EC= 3.4.16.2 Alternative name(s): Angiotensinase C Lysosomal carboxypeptidase C Proline carboxypeptidase Prolylcarboxypeptidase Short name= PRCP
<b>Expression Region</b>	46-496
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This protein 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.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a



concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.