

Active Recombinant Human PRCP, His-tagged

Cat. No. PRCP-23H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRCP (Met1-His496), fused with a C-terminal 6-His tag, was expressed in Mouse NSO Cells.
Species	Human
Source	Mammalian Cells
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.
Predicted N Terminal	Leu22
Form	Supplied as a 0.2 µ filtered solution in MES and NaCl.
Bio-activity	Measured by its ability to cleave the synthetic peptide substrate N-benzyloxycarbonyl-Pro-Ala (Z-Pro-Ala).

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Molecular Mass	Predicted Molecular Mass: 54 kDaSDS-PAGE: 60-70 kDa, reducing conditions
Endotoxin	< 1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane.
Storage	Avoid repeated freeze-thaw cycles.6 months from date of receipt, -20 to -70 °C as supplied.3 months, -20 to -70 °C under sterile conditions after opening.

GENE INFORMATION

Gene Name	PRCP prolylcarboxypeptidase (angiotensinase C) [Homo sapiens]
Official Symbol	PRCP
Synonyms	PRCP; prolylcarboxypeptidase (angiotensinase C); lysosomal Pro-X carboxypeptidase; HUMPCP; PCP; angiotensinase C; proline carboxypeptidase; lysosomal carboxypeptidase C; prolylcarboxypeptidase isoform 1 preproprotein; MGC2202
Gene ID	5547
mRNA Refseq	NM_005040
Protein Refseq	NP_005031
MIM	176785
UniProt ID	P42785

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Chromosome Location	11q14
Pathway	Formation of Fibrin Clot (Clotting Cascade); Hemostasis; Protein digestion and absorption; Intrinsic Pathway
Function	protein binding; serine-type carboxypeptidase activity

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