PRCP Protein, Human (HEK293, His)

Cat. No.:	HY-P7668
Synonyms:	Lysosomal Pro-X Carboxypeptidase; Angiotensinase C; Lysosomal Carboxypeptidase C; Proline Carboxypeptidase; Prolylcarboxypeptidase; PRCP; PCP
Species:	Human
Source:	HEK293
Accession:	P42785 (L22-H496)
Gene ID:	5547
Molecular Weight:	60-90 kDa

PROPERTIES

AA Sequence	L R P A L R A L G S L H L P T N P T S L P A V A K N Y S V L Y F Q Q K V D H F G F N T V K T F N Q R Y L V A D K Y W K K N G G S I L F Y T G N E G D I I W F C N N T G F M W D V A E E L K A M L V F A E H R Y Y G E S L P F G D N S F K D S R H L N F L T S E Q A L A D F A E L I K H L K R T I P G A E N Q P V I A I G G S Y G G M L A A W F R M K Y P H M V V G A L A A S A P I W Q F E D L V P C G V F M K I V T T D F R K S G P H C S E S I H R S W D A I N R L S N T G S G L Q W L T G A L H L C S P L T S Q D I Q H L K D W I S E T W V N L A M V D Y P Y A S N F L Q P L P A W P I K V V C Q Y L K N P N V S D S L L L Q N I F Q A L N V Y Y N Y S G Q V K C L N I S E T A T S S L G T L G W S Y Q A C T E V V M P F C T N G V D D M F E P H S W N L K E L S D D C F Q Q W G V R P R P S W I T T M Y G G K N I S S H T N I V F S N G E L D P W S G G G V T K D I T D T L V A V T I S E G A H H L D L R T K N A L D P M S V L L A R S L E V R H M K N W I R D F Y D S A G K Q H
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filter solution of 20 mM NaAc-HAc, 150 mM NaCl, 10% Glycerol, pH4.5.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	PRCP, or prolylcarboxypeptidase, is an enzyme known for its role in selectively cleaving C-terminal amino acids linked to

proline in peptides like angiotensin II, III, and des-Arg9-bradykinin. A distinctive feature of PRCP is its preference for acidic pH during cleavage; however, it retains enzymatic activity with specific substrates even under neutral pH conditions. This dual pH responsiveness implies a versatile functionality for PRCP in different cellular environments, influencing the processing and bioactivity of peptides involved in essential physiological pathways, particularly those associated with the renin-angiotensin and kinin systems. The ability of PRCP to operate across a range of pH levels suggests its intricate regulatory role in peptide metabolism and signaling.

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