

PGCP Protein, Mouse (HEK293, His)

Cat. No.:	HY-P71200
Synonyms:	PGCP; Carboxypeptidase Q; Hematopoietic lineage switch 2; Plasma glutamate carboxypeptidase; Cpq; Hls2
Species:	Mouse
Source:	HEK293
Accession:	Q9WVJ3 (K19-S470)
Gene ID:	54381
Molecular Weight:	Approximately 60.0 kDa

PROPERTIES

AA Sequence	<pre> K A V F K N G V S Q R T F R E I K E E I A N Y E D V A K A I I N L A V Y G K Y Q N R S Y E R L G L L V D T V G P R L S G S K N L E K A I Q I M Y Q N L Q Q D G L E N V H L E Q V R I P H W E R G E E S A V M L E P R I H K M A I L G L G S S I G T P P G G I T A E V L V V A S F D E L Q R R A S E A R G K I I V Y N Q P Y T G Y E K T V Q Y R V Q G A V E A A K V G A V A S L I Q S V A S F S I Y S P H T G I Q K Y Q D G V P K I P T A C I T V E D A E M M S R M A S R G N K I V I H L E M G A K T Y P D T D S F N T V A E I T G S M Y P E E V V L V S G H L D S W D V G Q G A L D D G G G A F I S W E A L S L V K D L G L R P K R T L R L V L W T A E E Q G G I G A S Q Y Y E L H K A N I S K Y S L V M E A D S G T F L P T G L Q F T G S D K A R A I M K E V M N L L Q P L N V T K V F S N G E G T D I N F W I Q A G V P G A S L R D D L Y K Y F F F H H S H G D T M T V M D P K Q M N V A A A V W A V V A Y V V A D M D E M L P R S </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	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

PGCP (peptidoglycan recognition protein 2) is a carboxypeptidase with a potential key role in the hydrolysis of circulating peptides. This enzyme catalyzes the hydrolysis of dipeptides with unsubstituted terminals, breaking them down into individual amino acids. There is a suggestion that PGCP may participate in the liberation of thyroxine hormone from its thyroglobulin precursor, indicating a potential involvement in thyroid hormone regulation. Structurally, PGCP exists as a homodimer, with the monomeric form being inactive while the homodimer configuration exhibits enzymatic activity. This dimeric structure suggests a regulatory mechanism for the activation of PGCP, emphasizing its significance in the processing and metabolism of circulating peptides.

Caution: Product has not been fully validated for medical applications. For research use only.

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