Pepsinogen C/PGC Protein, Human (HEK293, His)

Cat. No.:	HY-P77132
Synonyms:	Gastricsin; Pepsinogen C; PGC; PEPC
Species:	Human
Source:	HEK293
Accession:	P20142-1 (A17-A388)
Gene ID:	5225
Molecular Weight:	Approximately 41 kDa

PROPERTIES

AA Sequence	A V V K V P L K K F K S I R E T M K E K G L L G E F L R T H K Y D P A W K Y R F G D L S V T Y E P M A Y M D A A Y F G E I S I G T P P Q N F L V L F D T G S S N L W V P S V Y C Q S Q A C T S H S R F N P S E S S T Y S T N G Q T F S L Q Y G S G S L T G F F G Y D T L T V Q S I Q V P N Q E F G L S E N E P G T N F V Y A Q F D G I M G L A Y P A L S V D E A T T A M Q Q M V Q E G A L T S P V F S V Y L S N Q Q G S S G G A V V F G G V D S S L Y T G Q I Y W A P V T Q E L Y W Q I G I E E F L I G G Q A S G W C S E G C Q A I V D T G T S L L T V P Q Q Y M S A L L Q A T G A Q E D E Y G Q F L V N C N S I Q N L P S L T F I I N G V E F P L P P S S Y I L S N N G Y C T V G V E P T Y L S S Q N G Q P L W I L G D V F L R S Y Y S V Y D L G N N R V G F A T A A
Biological Activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPPGFSAFK(Dnp)-OH. The specific activity is 1431.763 pmol/min/μg, as measured under the described conditions.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris, 150 mM NaCl, pH 7.5.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Pepsinogen C, also known as PGC protein, serves as a key enzyme with the ability to hydrolyze a diverse range of proteins. This enzymatic activity underscores its crucial role in the digestive process, as it participates in breaking down proteins into smaller peptides. PGC's proficiency in protein hydrolysis contributes significantly to the initial stages of digestion, playing a vital role in the overall digestive cascade.

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