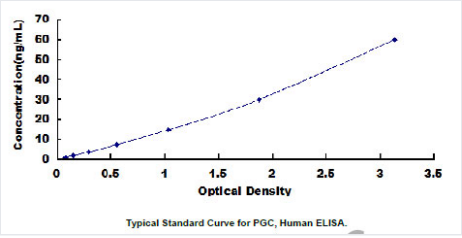
Pepsinogen C (PGC) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Pepsinogen C (PGC), ELISA Kit
Full Product Name	Human Pepsinogen C (PGC) ELISA Kit
Product Gene Name	PGC elisa kit
Product Synonym Names	PG-C; Progastricsin; Gastricsin
Species Reactivity	Human
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates and other biological fluids
Detection Range	0.94-60ng/mL
Sensitivity	0.41ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of PGC. No significant cross-reactivity or interference between PGC and analogues was observed.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PGC were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PGC were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	34,208 Da
OMIM	169740
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Product Categories/Family for PGC elisa kit	Enzyme & Kinase; Tumor immunity; Gastroenterology
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Related Product Information for PGC elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PGC in human serum, plasma, tissue homogenates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to PGC. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to PGC. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain PGC, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of PGC in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of PGC elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for PGC purchase	MBS2023939 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Pepsinogen C (PGC) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PGC. The ELISA analytical biochemical technique of the MBS2023939 kit is based on PGC antibody-PGC antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PGC antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PGC. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of PGC elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PGC. It may not necessarily be applicable to this product.

NCBI GI #	387015
NCBI Accession #	AAA60063.1
UniProt Secondary Accession #	Q5T3D7; Q5T3D8; B4DVZ3
NCBI Official Full Name	pepsinogen C
UniProt Protein Name	Gastricsin
UniProt Synonym Protein Names	Pepsinogen C
Protein Family	Gastricsin
UniProt Gene Name	PGC
UniProt Entry Name	PEPC_HUMAN
UniProt Comments for PGC	PGC: Hydrolyzes a variety of proteins. Belongs to the peptidase A1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Protease; Secreted; EC 3.4.23.3; Secreted, signal peptide Chromosomal Location of Human Ortholog: 6p21.1 Cellular Component: extracellular space Molecular Function: aspartic-type endopeptidase activity Biological Process: digestion; proteolysis
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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