Ghrelin (GHRL) ELISA Kit for Chicken

PRODUCT OVERVIEW

Product Name	Ghrelin (GHRL), ELISA Kit
Full Product Name	Chicken Ghrelin (GHRL) ELISA Kit
Product Gene Name	GHRL elisa kit
Product Synonym Names	MTLRP; Growth Hormone-Releasing Peptide
Species Reactivity	Chicken
Assay Type	Competitive inhibition
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.061ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of GHRL. No significant cross-reactivity or interference between GHRL and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level GHRL 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 GHRL were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	13,255 Da
3D Structure	ModBase 3D Structure for Q7T2V1
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for GHRL elisa kit	Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of GHRL in serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to GHRL has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled GHRL and unlabeled GHRL (Standards or samples) with the pre-coated antibody specific to GHRL. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of GHRL in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of GHRL in the sample.
Other Notes	Small volumes of GHRL 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 GHRL purchase	MBS454635 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Ghrelin (GHRL) 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 GHRL. The ELISA analytical biochemical technique of the MBS454635 kit is based on GHRL antibody-GHRL antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect GHRL antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, GHRL. 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(%).

ADDITIONAL DETAILS

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

NCBI GI #	47564125
NCBI GeneID	408185
NCBI Accession #	NP_001001131.1
UniProt Primary Accession #	Q7T2V1
GenBank Nucleotide #	NM_001001131.1
NCBI Official Full Name	appetite-regulating hormone preproprotein
NCBI Official Synonym Full Names	ghrelin/obestatin prepropeptide
NCBI Official Symbol	GHRL
NCBI Official Synonym Symbols	ghrelin; preproghrelin
UniProt Protein Name	Preproghrelin
UniProt Synonym Protein Names	Preproghrelin
Protein Family	Appetite-regulating hormone
UniProt Gene Name	ghr
NCBI Protein Information	appetite-regulating hormone
Research Articles on GHRL	**1.** Expression levels of ghrelin, GOAT and GHS-R1a in the brain were independently regulated from that in the proventriculus in male chickens.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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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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