

Rat ghrelin/obestatin prepropeptide ELISA Kit | GHRL elisa kit

Rat ghrelin, GHRL ELISA Kit

CATALOG #
AAA80424

REACTIVITY
Rat

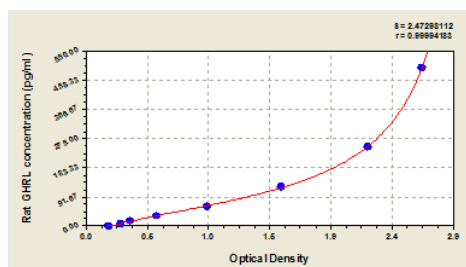
PRODUCT SYNONYMS

ghrelin/obestatin prepropeptide; Rat ghrelin; GHRL ELISA Kit; Rat ghrelin (GHRL) ELISA kit; MTLRP; obestatin; OTTHUMP00000207794; OTTHUMP00000207795; OTTHUMP00000207796; OTTHUMP00000207798; ghrelin; growth hormone secretagogue receptor ligand; ghrelin/obestatin; ghrelin/obestatin preprohormone; m; GHRL elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat GHRL. No significant cross-reactivity or interference between Rat GHRL and analogues was observed.
Sequence Length	117
Samples	Serum, plasma, cell culture supernates
Detection Range	7.8 pg/ml - 500 pg/ml
Sensitivity	1.95 pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GHRL elisa kit

Introduction: Ghrelin was originally discovered as a preprohormone that stimulates the release of growth hormone from the anterior pituitary. Recent studies have shown that ghrelin, in concert with other hormones, helps to control both appetite and energy balance. The synthesis of ghrelin takes place predominantly in epithelial cells of the stomach, although it is also produced in smaller quantities in the placenta, kidney, pituitary and hypothalamus. Ghrelin is an endogenous ligand for the growth hormone secretagogue receptor and is involved in regulating growth hormone release from the pituitary. It has an appetite stimulating effect, induces adiposity, and stimulates gastric acid secretion, and it is involved in growth regulation. Ghrelin is synthesized as a preprohormone (13kDa), then proteolytically processed to yield a 28 amino acid peptide (3kDa). Obestatin, an appetite suppressing peptide hormone, is also produced in the process. An interesting and unique modification is imposed on the ghrelin hormone during synthesis in the form of octanoic acid bound to one of its amino acids. This modification is necessary for biological activity.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to GHRP-Ghrelin. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for GHRP-Ghrelin. and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5',5'-tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain GHRP-Ghrelin, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm $\pm$ 2 nm. The concentration of GHRP-Ghrelin. in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	11067387
NCBI GeneID	59301
NCBI Accession #	NP_067701.1
NCBI GenBank Nucleotide #	NM_021669.2
UniProt Accession #	Q9QYH7 ; Q9ET69
Molecular Weight	13,176 Da
NCBI Official Full Name	appetite-regulating hormone preproprotein
NCBI Official Synonym Full Names	ghrelin/obestatin prepropeptide
NCBI Official Symbol	Ghrl
NCBI Protein Information	appetite-regulating hormone; ghrelin; motilin-related peptide; growth hormone secretagogue; growth hormone-releasing peptide
UniProt Protein Name	Appetite-regulating hormone
UniProt Gene Name	Ghrl
UniProt Entry Name	GHRL_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ghrl-rat-elisa-kits/ghrelin-obestatin-prepropeptide/80424>