GNRHR Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	GNRHR, Blocking Peptide
Full Product Name	GNRHR Antibody (N-term) Blocking Peptide
Product Gene Name	GNRHR blocking peptide
Product Synonym Gene Name	GRHR
Product Synonym Names	Gonadotropin-releasing hormone receptor; GnRH receptor; GnRH-R; GNRHR; GRHR
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	GNRHR peptide (MBS9223339) is used for blocking the activity of GNRHR antibody (MBS9203424)
Molecular Weight	27,727 Da
OMIM	138850
Cellular Location	Cell membrane; Multi-pass membrane protein.
Tissue Location	Pituitary, ovary, testis, breast and prostate but not in liver and spleen
Related Product Information for GNRHR blocking peptide	Receptor for gonadotropin releasing hormone (GnRH) that mediates the action of GnRH to stimulate the secretion of the gonadotropic hormones luteinizing hormone (LH) and follicle- stimulating hormone (FSH). This receptor mediates its action by association with G-proteins that activate a phosphatidylinositol- calcium second messenger system. Isoform 2 may act as an inhibitor of GnRH-R signaling.
Other Notes	Small volumes of GNRHR blocking peptide 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 GNRHR purchase	MBS9223339 is a blocking peptide targeting GNRHR. Also known as GNRHR Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	399777
NCBI GeneID	2798
NCBI Accession #	P30968.1
UniProt Primary Accession #	P30968
UniProt Secondary Accession #	O75793; Q14D13; Q92644
UniProt Related Accession #	P30968
NCBI Official Full Name	Gonadotropin-releasing hormone receptor
NCBI Official Synonym Full Names	gonadotropin releasing hormone receptor
NCBI Official Symbol	GNRHR
NCBI Official Synonym Symbols	HH7; GRHR; LRHR; LHRHR; GNRHR1

UniProt Protein Name	Gonadotropin-releasing hormone receptor
Protein Family	Gonadotropin-releasing hormone receptor
UniProt Gene Name	GNRHR
UniProt Synonym Gene Names	GRHR; GnRH receptor; GnRH-R
UniProt Entry Name	GNRHR_HUMAN
NCBI Protein Information	gonadotropin-releasing hormone receptor
NCBI Summary for GNRHR	This gene encodes the receptor for type 1 gonadotropin-releasing hormone. This receptor is a member of the seven-transmembrane, G-protein coupled receptor (GPCR) family. It is expressed on the surface of pituitary gonadotrope cells as well as lymphocytes, breast, ovary, and prostate. Following binding of gonadotropin-releasing hormone, the receptor associates with G-proteins that activate a phosphatidylinositol-calcium second messenger system. Activation of the receptor ultimately causes the release of gonadotropic luteinizing hormone (LH) and follicle stimulating hormone (FSH). Defects in this gene are a cause of hypogonadotropic hypogonadism (HH). Alternative splicing results in multiple transcript variants encoding different isoforms. More than 18 transcription initiation sites in the 5' region and multiple polyA signals in the 3' region have been identified for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for GNRHR	GNRHR: Receptor for gonadotropin releasing hormone (GnRH) that mediates the action of GnRH to stimulate the secretion of the gonadotropic hormones luteinizing hormone (LH) and follicle- stimulating hormone (FSH). This receptor mediates its action by association with G-proteins that activate a phosphatidylinositol- calcium second messenger system. Isoform 2 may act as an inhibitor of GnRH-R signaling. Defects in GNRHR are a cause of idiopathic hypogonadotropic hypogonadism (IHH). IHH is defined as a deficiency of the pituitary secretion of follicle-stimulating hormone and luteinizing hormone, which results in the impairment of pubertal maturation and of reproductive function. Defects in GNRHR are a cause of fertile eunuch syndrome (FEUNS). Fertile eunuch syndrome is a mild phenotypic form of HH going with the presence of normal testicular size and some degree of spermatogenesis. Belongs to the G-protein coupled receptor 1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Membrane protein, multi-pass; GPCR, family 1; Receptor, GPCR Chromosomal Location of Human Ortholog: 4q21.2 Cellular Component: integral to plasma membrane; membrane; plasma membrane Molecular Function: peptide binding Biological Process: multicellular organismal development Disease: Hypogonadotropic Hypogonadism 7 With Or Without Anosmia
Research Articles on GNRHR	**1.** GnRH receptors on triple negative breast cancer cells can be used for targeted therapy of these cancers with GnRH agonist triptorelin
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

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.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/gnrhr/9223339