GHRHR Human Protein

PRODUCT OVERVIEW

Product Name	GHRHR, Protein
Full Product Name	Human GHRHR full length protein-synthetic nanodisc
Product Gene Name	GHRHR protein
Product Synonym Names	GHRFR; GRFR; IGHD1B; IGHD4
Host	HEK293
Form/Format	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing).
Molecular Weight	47,402 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (31003636..31019146). Location: 7p14
OMIM	139191
3D Structure	ModBase 3D Structure for Q02643
Product Categories/Family for GHRHR protein	FLP 489; Full Length Transmembrane Proteins
Related Product Information for GHRHR protein	This gene encodes a receptor for growth hormone-releasing hormone. Binding of this hormone to the receptor leads to synthesis and release of growth hormone. Mutations in this gene have been associated with isolated growth hormone deficiency (IGHD), also known as Dwarfism of Sindh, a disorder characterized by short stature. [provided by RefSeq, Jun 2010]
Other Notes	Small volumes of GHRHR protein 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 GHRHR purchase	MBS1880009 is a protein targeting GHRHR. Also known as Human GHRHR full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

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

NCBI GI #	58530851
NCBI GeneID	2692
NCBI Accession #	NP_000814.2
UniProt Primary Accession #	Q02643
UniProt Secondary Accession #	Q99863
UniProt Related Accession #	Q02643
GenBank Nucleotide #	NM_000823.3
NCBI Official Full Name	growth hormone-releasing hormone receptor
NCBI Official Synonym Full Names	growth hormone releasing hormone receptor

NCBI Official Symbol	GHRHR
NCBI Official Synonym Symbols	GRFR; GHRFR; IGHD1B
UniProt Protein Name	Growth hormone-releasing hormone receptor
UniProt Synonym Protein Names	Growth hormone-releasing factor receptor
Protein Family	Growth hormone-releasing hormone receptor
UniProt Gene Name	GHRHR
UniProt Synonym Gene Names	GHRH receptor; GRF receptor; GRFR
UniProt Entry Name	GHRHR_HUMAN
NCBI Protein Information	growth hormone-releasing hormone receptor; GRF receptor; GHRH receptor
UniProt Comments for GHRHR	GHRHR: Receptor for GRF, coupled to G proteins which activate adenylyl cyclase. Stimulates somatotroph cell growth, growth hormone gene transcription and growth hormone secretion. Defects in GHRHR are a cause of growth hormone deficiency isolated type 1B (IGHD1B); also known as dwarfism of Sindh. IGHD1B is an autosomal recessive deficiency of GH which causes short stature. IGHD1B patients have low but detectable levels of GH. Belongs to the G-protein coupled receptor 2 family. Protein type: GPCR, family 2; Membrane protein, integral; Cell development/differentiation; Receptor, GPCR; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 7p14 Cellular Component: nuclear outer membrane; cell surface; nuclear matrix; cytoplasm; integral to membrane; plasma membrane; nuclear inner membrane; secretory granule Molecular Function: G-protein coupled receptor activity; protein binding; peptide hormone binding; growth factor binding; growth hormone-releasing hormone receptor activity Biological Process: lactation; positive regulation of insulin-like growth factor receptor signaling pathway; response to glucocorticoid stimulus; regulation of protein metabolic process; cell maturation; adenylate cyclase activation; positive regulation of multicellular organism growth; determination of adult life span; reproductive process in a multicellular organism; G-protein signaling, adenylate cyclase activating pathway; response to insulin stimulus; positive regulation of growth hormone secretion; water homeostasis; growth hormone secretion; cAMP-mediated signaling; cellular response to insulin stimulus; response to estrogen stimulus; positive regulation of cell proliferation; positive regulation of cAMP biosynthetic process; somatotropin secreting cell development; hormone metabolic process; regulation of steroid hormone receptor signaling pathway Disease: Isolated Growth Hormone Deficiency, Type Ib
Research Articles on GHRHR	**1.** We report a novel splice-disrupting mutation in GHRHR in 2 siblings and provide evidence that all c.57+1G>A (IVS1+1G>A) mutant chromosomes have the same haplotype ancestor
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/protein/ghrhr/1880009