GNRH2 siRNA – Progonadoliberin-2 Isoform a Preproprotein (Human)

PRODUCT OVERVIEW

Product Name	GNRH2, siRNA
Full Product Name	GNRH2 siRNA (Human)
Product Gene Name	GNRH2 sirna
Product Synonym Names	Progonadoliberin-2; Progonadoliberin II
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	GNRH2 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	12,233 Da
OMIM	602352
3D Structure	ModBase 3D Structure for O43555
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of human GNRH2 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for GNRH2 sirna	RNA Interference (RNAi)
Related Product Information for GNRH2 sirna	MBS8220772 is an siRNA targeting GNRH2. Also known as GNRH2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit GNRH2 expression using RNA interference
Other Notes	Small volumes of GNRH2 sirna 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GNRH2. It may not necessarily be applicable to this product.

NCBI GI #	4504057
NCBI GeneID	2797
NCBI Accession #	NP_001492.1
UniProt Primary Accession #	O43555
UniProt Secondary Accession #	Q14C68; Q14C69; Q9BYN9; Q9BYP0
UniProt Related Accession #	O43555
GenBank Nucleotide #	NM_001501.1
NCBI Official Full Name	progonadoliberin-2 isoform a preproprotein
NCBI Official Synonym Full Names	gonadotropin-releasing hormone 2
NCBI Official Symbol	GNRH2
NCBI Official Synonym Symbols	GnRH-II; LH-RHII
UniProt Protein Name	Progonadoliberin-2
UniProt Synonym Protein Names	Progonadoliberin II
Protein Family	Progonadoliberin
UniProt Gene Name	GNRH2
UniProt Synonym Gene Names	GnRH II; LH-RH II
UniProt Entry Name	GON2_HUMAN
NCBI Protein Information	progonadoliberin-2
NCBI Summary for GNRH2	This gene encodes a secreted peptide hormone and member of the gonadotropin-releasing hormone (GnRH) family of proteins. The encoded protein regulates reproductive function by stimulating the production and release of the gonadotropins follicle-stimulating hormone (FSH) and luteinizing hormone (LH). The encoded protein may inhibit endometrial, ovarian, prostate, and breast cancer cell proliferation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]
UniProt Comments for GNRH2	GNRH2: Stimulates the secretion of gonadotropins; it stimulates the secretion of both luteinizing and follicle-stimulating hormones. Belongs to the GnRH family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 20p13 Cellular Component: extracellular region Molecular Function: hormone activity Biological Process: multicellular organismal development; signal transduction
Research Articles on GNRH2	**1.** GnRHII expression correlated significantly with poor prognosis in breast cancer patients.
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