FSHB siRNA – Follitropin Subunit Beta (Human)

PRODUCT OVERVIEW

Product Name	FSHB, siRNA
Full Product Name	FSHB siRNA (Human)
Product Gene Name	FSHB sirna
Product Synonym Names	Follitropin subunit beta; Follicle-stimulating hormone beta subunit; FSH-B; FSH-beta; Follitropin beta chain
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	FSHB 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	14,700 Da
OMIM	136530
3D Structure	ModBase 3D Structure for P01225
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 FSHB 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 FSHB sirna	RNA Interference (RNAi)
Related Product Information for FSHB sirna	MBS8213345 is an siRNA targeting FSHB. Also known as FSHB siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit FSHB expression using RNA interference
Other Notes	Small volumes of FSHB 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 FSHB. It may not necessarily be applicable to this product.

NCBI GI #	4503791
NCBI GeneID	2488
NCBI Accession #	NP_000501.1
UniProt Primary Accession #	P01225
UniProt Secondary Accession #	Q14D61; A2TF08; A5JVV3
UniProt Related Accession #	P01225
GenBank Nucleotide #	NM_000510.2
NCBI Official Full Name	follitropin subunit beta
NCBI Official Synonym Full Names	follicle stimulating hormone, beta polypeptide
NCBI Official Symbol	FSHB
NCBI Official Synonym Symbols	HH24
UniProt Protein Name	Follitropin subunit beta
UniProt Synonym Protein Names	Follicle-stimulating hormone beta subunit; FSH-B; FSH-beta; Follitropin beta chain
Protein Family	Follitropin
UniProt Gene Name	FSHB
UniProt Synonym Gene Names	FSH-B; FSH-beta
UniProt Entry Name	FSHB_HUMAN
NCBI Protein Information	follitropin subunit beta
NCBI Summary for FSHB	The pituitary glycoprotein hormone family includes follicle-stimulating hormone, luteinizing hormone, chorionic gonadotropin, and thyroid-stimulating hormone. All of these glycoproteins consist of an identical alpha subunit and a hormone-specific beta subunit. This gene encodes the beta subunit of follicle-stimulating hormone. In conjunction with luteinizing hormone, follicle-stimulating hormone induces egg and sperm production. Alternative splicing results in two transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]
UniProt Comments for FSHB	FSHB: Stimulates development of follicle and spermatogenesis in the reproductive organs. Defects in FSHB are a cause of isolated follicle- stimulating hormone deficiency (IFSHD). Selective follicle-stimulating hormone deficiency is an uncommon cause of infertility, producing amenorrhea and hypogonadism in women and oligo or azoospermia with normal testosterone levels in normally virilised men. Belongs to the glycoprotein hormones subunit beta family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 11p13 Cellular Component: cytoplasm; extracellular region Molecular Function: follicle-stimulating hormone activity; protein binding; hormone activity Biological Process: progesterone biosynthetic process; follicle-stimulating hormone signaling pathway; peptide hormone processing; female gamete generation; Sertoli cell proliferation; female pregnancy; signal transduction; cellular protein metabolic process; regulation of osteoclast differentiation; transforming growth factor beta receptor signaling pathway; positive regulation of cell proliferation; positive regulation of bone resorption; positive regulation of transcription from RNA polymerase II promoter; positive regulation of cell migration Disease: Follicle-stimulating Hormone Deficiency, Isolated
Research Articles on FSHB	**1.** 3 known FSH-action modulating SNPs (FSHB -211G/T; FSHR -29G/A, c.2039 A/G)explained together 2.3%, 1.4%, 1.0 and 1.1% of the measured variance in serum FSH, Inhibin B, testosterone and total testes volume, respectively.

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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