YWHAH siRNA – 14-3-3 Protein Eta (Human)

PRODUCT OVERVIEW

Product Name	YWHAH, siRNA
Full Product Name	YWHAH siRNA (Human)
Product Gene Name	YWHAH sirna
Product Synonym Names	YWHA1; 14-3-3 protein eta; Protein AS1
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	YWHAH 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	28,219 Da
OMIM	113508
3D Structure	ModBase 3D Structure for Q04917
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 YWHAH 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 YWHAH sirna	RNA Interference (RNAi)
Related Product Information for YWHAH sirna	MBS8231385 is an siRNA targeting YWHAH. Also known as YWHAH siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit YWHAH expression using RNA interference
Other Notes	Small volumes of YWHAH 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 YWHAH. It may not necessarily be applicable to this product.

NCBI GI #	4507951
NCBI GeneID	7533
NCBI Accession #	NP_003396.1
UniProt Primary Accession #	Q04917
UniProt Related Accession #	Q04917
GenBank Nucleotide #	NM_003405.3
NCBI Official Full Name	14-3-3 protein eta
NCBI Official Synonym Full Names	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta
NCBI Official Symbol	YWHAH
NCBI Official Synonym Symbols	YWHA1
UniProt Protein Name	14-3-3 protein eta
UniProt Synonym Protein Names	Protein AS1
Protein Family	14-3-3 protein
UniProt Gene Name	YWHAH
UniProt Synonym Gene Names	YWHA1
UniProt Entry Name	1433F_HUMAN
NCBI Protein Information	14-3-3 protein eta
NCBI Summary for YWHAH	This gene product belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 99% identical to the mouse, rat and bovine orthologs. This gene contains a 7 bp repeat sequence in its 5' UTR, and changes in the number of this repeat have been associated with early-onset schizophrenia and psychotic bipolar disorder. [provided by RefSeq, Jun 2009]
UniProt Comments for YWHAH	14-3-3 eta: a protein of the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. A multifunctional regulator of the cell signaling processes. Protein type: Adaptor/scaffold; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 22q12.3 Cellular Component: cytoplasmic vesicle membrane; cytoplasm; plasma membrane; cytosol Molecular Function: insulin-like growth factor receptor binding; protein domain specific binding; protein binding; enzyme binding; sodium channel regulator activity; protein heterodimerization activity; actin binding; glucocorticoid receptor binding Biological Process: intracellular protein transport; substantia nigra development; apoptosis; regulation of neuron differentiation; glucocorticoid receptor signaling pathway; positive regulation of transcription, DNA-dependent; regulation of synaptic plasticity; glucocorticoid catabolic process; negative regulation of dendrite morphogenesis; regulation of sodium ion transport
Research Articles on YWHAH	**1.** This study identified YWHAH significantly associated loci with a biologically plausible role in schizophrenia.
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