RWDD3 siRNA – RWD Domain-Containing Protein 3 Isoform B (Human)

PRODUCT OVERVIEW

Product Name	RWDD3, siRNA
Full Product Name	RWDD3 siRNA (Human)
Product Gene Name	RWDD3 sirna
Product Synonym Names	RSUME; RWD domain-containing protein 3; RWD-containing sumoylation enhancer
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	RWDD3 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	22,857 Da
OMIM	615875
3D Structure	ModBase 3D Structure for Q9Y3V2
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 RWDD3 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 RWDD3 sirna	RNA Interference (RNAi)
Related Product Information for RWDD3 sirna	MBS8240315 is an siRNA targeting RWDD3. Also known as RWDD3 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit RWDD3 expression using RNA interference
Other Notes	Small volumes of RWDD3 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 RWDD3. It may not necessarily be applicable to this product.

NCBI GI #	189458889
NCBI GeneID	25950
NCBI Accession #	NP_001121614.1
UniProt Primary Accession #	Q9Y3V2
UniProt Secondary Accession #	Q08AJ7; Q6FID3; Q9BX35; A6NP44; A8K9F0; C9J9L7; C9JI45
GenBank Nucleotide #	NM_001128142.1
NCBI Official Full Name	RWD domain-containing protein 3 isoform b
UniProt Protein Name	RWD domain-containing protein 3
UniProt Synonym Protein Names	RWD domain-containing sumoylation enhancer; RSUME
Protein Family	RWD domain-containing protein
UniProt Gene Name	RWDD3
UniProt Synonym Gene Names	RSUME; RSUME
UniProt Entry Name	RWDD3_HUMAN
UniProt Comments for RWDD3	RWDD3: Enhances the sumoylation of a number of proteins including HIF1A, PIAS and I-kappa-B, through direct interaction with UBC9. Has no effect on ubiquitination. 3 isoforms of the human protein are produced by alternative splicing. Protein type: SUMO conjugating system Chromosomal Location of Human Ortholog: 1p21.3 Cellular Component: cytoplasm; nucleus Molecular Function: protein binding Biological Process: positive regulation of protein sumoylation; inhibition of NF-kappaB transcription factor
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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