WWP1 siRNA – NEDD4-Like E3 Ubiquitin-Protein Ligase WWP1 (Human)

PRODUCT OVERVIEW

Product Name	WWP1, siRNA
Full Product Name	WWP1 siRNA (Human)
Product Gene Name	WWP1 sirna
Product Synonym Names	NEDD4-like E3 ubiquitin-protein ligase WWP1; Atrophin-1-interacting protein 5; AIP5; TGIF-interacting ubiquitin ligase 1; Tiul1; WW domain-containing protein 1
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	WWP1 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	– Da
OMIM	602307
3D Structure	ModBase 3D Structure for Q9H0M0
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 WWP1 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 WWP1 sirna	RNA Interference (RNAi)
Related Product Information for WWP1 sirna	MBS8225767 is an siRNA targeting WWP1. Also known as WWP1 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit WWP1 expression using RNA interference
Other Notes	Small volumes of WWP1 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 WWP1. It may not necessarily be applicable to this product.

NCBI GI #	13654239
NCBI GeneID	11059
NCBI Accession #	NP_008944.1
UniProt Primary Accession #	Q9H0M0
UniProt Secondary Accession #	O00307; Q5YLC1; Q96BP4
UniProt Related Accession #	Q9H0M0
GenBank Nucleotide #	NM_007013.3
NCBI Official Full Name	NEDD4-like E3 ubiquitin-protein ligase WWP1
NCBI Official Synonym Full Names	WW domain containing E3 ubiquitin protein ligase 1
NCBI Official Symbol	WWP1
NCBI Official Synonym Symbols	AIP5; Tiul1; hSDRP1
UniProt Protein Name	NEDD4-like E3 ubiquitin-protein ligase WWP1
UniProt Synonym Protein Names	Atrophin-1-interacting protein 5; AIP5; TGIF-interacting ubiquitin ligase 1; Tiul1; WW domain-containing protein 1
Protein Family	NEDD4-like E3 ubiquitin-protein ligase
UniProt Gene Name	WWP1
UniProt Synonym Gene Names	AIP5; Tiul1
UniProt Entry Name	WWP1_HUMAN
NCBI Protein Information	NEDD4-like E3 ubiquitin-protein ligase WWP1
NCBI Summary for WWP1	WW domain-containing proteins are found in all eukaryotes and play an important role in the regulation of a wide variety of cellular functions such as protein degradation, transcription, and RNA splicing. This gene encodes a protein which contains 4 tandem WW domains and a HECT (homologous to the E6-associated protein carboxyl terminus) domain. The encoded protein belongs to a family of NEDD4-like proteins, which are E3 ubiquitin-ligase molecules and regulate key trafficking decisions, including targeting of proteins to proteosomes or lysosomes. Alternative splicing of this gene generates at least 6 transcript variants; however, the full length nature of these transcripts has not been defined. [provided by RefSeq, Jul 2008]
UniProt Comments for WWP1	WWP1: E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Ubiquitinates ERBB4 isoforms JM-A CYT-1 and JM-B CYT-1, KLF2, KLF5 and TP63 and promotes their proteasomal degradation. Ubiquitinates RNF11 without targeting it for degradation. Ubiquitinates and promotes degradation of TGFBR1; the ubiquitination is enhanced by SMAD7. Ubiquitinates SMAD6 and SMAD7. Ubiquitinates and promotes degradation of SMAD2 in response to TGF-beta signaling, which requires interaction with TGIF. 6 isoforms of the human protein are produced by alternative splicing. Protein type: EC 6.3.2.19; EC 6.3.2.-; Ubiquitin ligase; Ubiquitin conjugating system; Ligase Chromosomal Location of Human Ortholog: 8q21 Cellular Component: cytoplasm; plasma membrane; nucleus; cytosol; ubiquitin ligase complex Molecular Function: protein binding; ubiquitin-protein ligase activity; ligase activity Biological Process: proteasomal ubiquitin-dependent protein catabolic process; entry of virus into host cell; central nervous system development; protein ubiquitination during ubiquitin-dependent protein catabolic process; protein ubiquitination; negative regulation of transcription, DNA-dependent; signal transduction; transmembrane transport
Research Articles on WWP1	**1.** Results suggest that elevated transcription and expression levels of ubiquitin ligase E3s WWP1, Smurf1 and Smurf2 genes may be the mechanisms of occurrence, development and metastasis of prostate cancer.

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