SNRNP48 siRNA – U11/U12 Small Nuclear Ribonucleoprotein 48 Kda Protein (Mouse)

PRODUCT OVERVIEW

Product Name	SNRNP48, siRNA
Full Product Name	SNRNP48 siRNA (Mouse)
Product Gene Name	SNRNP48 sirna
Product Synonym Names	U11/U12 small nuclear ribonucleoprotein 48 kDa protein; U11/U12 snRNP 48 kDa protein
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SNRNP48 siRNA (Mouse) 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	16,361 Da
3D Structure	ModBase 3D Structure for Q9D361
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 mouse SNRNP48 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 SNRNP48 sirna	RNA Interference (RNAi)
Related Product Information for SNRNP48 sirna	MBS8212338 is an siRNA targeting SNRNP48. Also known as SNRNP48 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit SNRNP48 expression using RNA interference
Other Notes	Small volumes of SNRNP48 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 SNRNP48. It may not necessarily be applicable to this product.

NCBI GI #	71067104

NCBI GeneID	67797
NCBI Accession #	NP_080658.2
UniProt Primary Accession #	Q9D361
UniProt Secondary Accession #	Q8BIU0; Q8BJ30; Q8CFF6; Q8VDQ5; Q9CSG3; Q9CVM5
UniProt Related Accession #	Q9D361
GenBank Nucleotide #	NM_026382.2
NCBI Official Full Name	U11/U12 small nuclear ribonucleoprotein 48 kDa protein
NCBI Official Synonym Full Names	small nuclear ribonucleoprotein 48 (U11/U12)
NCBI Official Symbol	Snrnp48
NCBI Official Synonym Symbols	C6orf151; 1110050F08Rik; 6530403A03Rik
UniProt Protein Name	U11/U12 small nuclear ribonucleoprotein 48 kDa protein
Protein Family	U11/U12 small nuclear ribonucleoprotein 48 kDa protein
UniProt Gene Name	Snrnp48
UniProt Synonym Gene Names	U11/U12 snRNP 48 kDa protein
UniProt Entry Name	SNR48_MOUSE
NCBI Protein Information	U11/U12 small nuclear ribonucleoprotein 48 kDa protein
UniProt Comments for SNRNP48	SNRNP48: Likely involved in U12-type 5' splice site recognition. 2 isoforms of the human protein are produced by alternative splicing. Protein type: RNA splicing Cellular Component: nucleoplasm; spliceosome; cytoplasm; nucleus; U12-dependent spliceosome Molecular Function: metal ion binding Biological Process: RNA splicing; mRNA processing
Research Articles on SNRNP48	**1.** Using site-specific cross-linking, we detected an interaction between the U11-48K protein and U12-type 5' splice sites (5'ss).
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