NUP107 siRNA – Nuclear Pore Complex Protein Nup107 (Mouse)

PRODUCT OVERVIEW

Product Name	NUP107, siRNA
Full Product Name	NUP107 siRNA (Mouse)
Product Gene Name	NUP107 sirna
Product Synonym Names	Nuclear pore complex protein Nup107; 107 kDa nucleoporin; Nucleoporin Nup107
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	NUP107 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	106,717 Da
3D Structure	ModBase 3D Structure for Q8BH74
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 NUP107 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 NUP107 sirna	RNA Interference (RNAi)
Related Product Information for NUP107 sirna	MBS8201331 is an siRNA targeting NUP107. Also known as NUP107 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit NUP107 expression using RNA interference
Other Notes	Small volumes of NUP107 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 NUP107. It may not necessarily be applicable to this product.

NCBI GI #	29789351

NCBI GeneID	103468
NCBI Accession #	NP_598771.1
UniProt Primary Accession #	Q8BH74
UniProt Secondary Accession #	Q99KH5
UniProt Related Accession #	Q8BH74
GenBank Nucleotide #	NM_134010.2
NCBI Official Full Name	nuclear pore complex protein Nup107
NCBI Official Synonym Full Names	nucleoporin 107
NCBI Official Symbol	Nup107
NCBI Official Synonym Symbols	C76801; AW541137
UniProt Protein Name	Nuclear pore complex protein Nup107
UniProt Synonym Protein Names	107 kDa nucleoporin; Nucleoporin Nup107
Protein Family	Nuclear pore complex protein
UniProt Gene Name	Nup107
UniProt Entry Name	NU107_MOUSE
NCBI Protein Information	nuclear pore complex protein Nup107
UniProt Comments for NUP107	NUP107: Essential component of nuclear pore complex. Required for the assembly of peripheral proteins into the nuclear pore complex. Belongs to the nucleoporin Nup84/Nup107 family. Protein type: Nucleoporin Cellular Component: nucleoplasm; kinetochore; centrosome; nuclear membrane; membrane; nuclear pore; chromosome; nucleus; chromosome, pericentric region Molecular Function: structural constituent of nuclear pore; nucleocytoplasmic transporter activity Biological Process: nuclear pore complex assembly; mRNA export from nucleus; protein transport; mRNA transport; transport
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