NEUROD4 siRNA – Neurogenic Differentiation Factor 4 (Human)

PRODUCT OVERVIEW

Product Name	NEUROD4, siRNA
Full Product Name	NEUROD4 siRNA (Human)
Product Gene Name	NEUROD4 sirna
Product Synonym Names	ATH3; ATOH3; BHLHA4; Neurogenic differentiation factor 4; NeuroD4; Class A basic helix-loop-helix protein 4; bHLHa4; Protein atonal homolog 3; ATH-3; Atoh3
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	NEUROD4 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	37,041 Da
OMIM	611635
3D Structure	ModBase 3D Structure for Q9HD90
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 NEUROD4 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 NEUROD4 sirna	RNA Interference (RNAi)
Related Product Information for NEUROD4 sirna	MBS8208309 is an siRNA targeting NEUROD4. Also known as NEUROD4 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit NEUROD4 expression using RNA interference
Other Notes	Small volumes of NEUROD4 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 NEUROD4. It may not necessarily be applicable to this product.

NCBI GI #	153792190
NCBI GeneID	58158
NCBI Accession #	NP_067014.2
UniProt Primary Accession #	Q9HD90
UniProt Secondary Accession #	B2RAC9
UniProt Related Accession #	Q9HD90
GenBank Nucleotide #	NM_021191.2
NCBI Official Full Name	neurogenic differentiation factor 4
NCBI Official Synonym Full Names	neuronal differentiation 4
NCBI Official Symbol	NEUROD4
NCBI Official Synonym Symbols	ATH3; ATH-3; Atoh3; MATH3; MATH-3; bHLHa4
UniProt Protein Name	Neurogenic differentiation factor 4
UniProt Synonym Protein Names	Class A basic helix-loop-helix protein 4; bHLHa4; Protein atonal homolog 3; ATH-3; Atoh3
Protein Family	Neurogenic differentiation factor
UniProt Gene Name	NEUROD4
UniProt Synonym Gene Names	ATH3; ATOH3; BHLHA4; NeuroD4; bHLHa4; ATH-3; Atoh3
UniProt Entry Name	NDF4_HUMAN
NCBI Protein Information	neurogenic differentiation factor 4
UniProt Comments for NEUROD4	NEUROD4: Probably acts as a transcriptional activator. Mediates neuronal differentiation. Required for the regulation of amacrine cell fate specification in the retina. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 12q13.2 Cellular Component: nucleus Molecular Function: protein dimerization activity; DNA binding Biological Process: Notch signaling pathway; glial cell differentiation; cell fate commitment; transcription, DNA-dependent; regulation of transcription, DNA-dependent; neuroblast proliferation; neuron migration; neuron development; positive regulation of cell differentiation
Research Articles on NEUROD4	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
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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