NOXO1 siRNA – NADPH Oxidase Organizer 1 (Mouse)

PRODUCT OVERVIEW

Product Name	NOXO1, siRNA
Full Product Name	NOXO1 siRNA (Mouse)
Product Gene Name	NOXO1 sirna
Product Synonym Names	SNX28; NADPH oxidase organizer 1; Nox organizer 1; Sorting nexin-28
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	NOXO1 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	26,844 Da
3D Structure	ModBase 3D Structure for Q8VCM2
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 NOXO1 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 NOXO1 sirna	RNA Interference (RNAi)
Related Product Information for NOXO1 sirna	MBS8206889 is an siRNA targeting NOXO1. Also known as NOXO1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit NOXO1 expression using RNA interference
Other Notes	Small volumes of NOXO1 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 NOXO1. It may not necessarily be applicable to this product.

NCBI GI #	151301165

NCBI GeneID	71893
NCBI Accession #	NP_082264.2
UniProt Primary Accession #	Q8VCM2
UniProt Secondary Accession #	Q3TZA4; Q8BH41; Q9D747
UniProt Related Accession #	Q8VCM2
GenBank Nucleotide #	NM_027988.4
NCBI Official Full Name	NADPH oxidase organizer 1
NCBI Official Synonym Full Names	NADPH oxidase organizer 1
NCBI Official Symbol	Noxo1
NCBI Official Synonym Symbols	hslt; Snx28; P41NOX; P41NOXA; P41NOXB; P41NOXC; 2310034C04Rik
UniProt Protein Name	NADPH oxidase organizer 1
UniProt Synonym Protein Names	Sorting nexin-28
Protein Family	NADPH oxidase organizer
UniProt Gene Name	Noxo1
UniProt Synonym Gene Names	Snx28; Nox organizer 1
UniProt Entry Name	NOXO1_MOUSE
NCBI Protein Information	NADPH oxidase organizer 1
UniProt Comments for NOXO1	NOXO1: Constitutively potentiates the superoxide-generating activity of NOX1 and NOX3 and is required for the biogenesis of otoconia/otolith, which are crystalline structures of the inner ear involved in the perception of gravity. Isoform 3 is more potent than isoform 1 in activating NOX3. Together with NOXA1, may also substitute to NCF1/p47phox and NCF2/p67phox in supporting the phagocyte NOX2/gp91phox superoxide-generating activity. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold Cellular Component: membrane; plasma membrane; NADPH oxidase complex Molecular Function: identical protein binding; enzyme binding; superoxide-generating NADPH oxidase activator activity; lipid binding; phosphoinositide binding Biological Process: positive regulation of catalytic activity; extracellular matrix disassembly; superoxide metabolic process
Research Articles on NOXO1	**1.** Genetic susceptibility to alcoholic steatohepatitis was linked to two candidate genes, Noxo1 (and Nlrc4).
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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