FOXO4 siRNA – Forkhead Box Protein O4 (Mouse)

PRODUCT OVERVIEW

Product Name	FOXO4, siRNA
Full Product Name	FOXO4 siRNA (Mouse)
Product Gene Name	FOXO4 sirna
Product Synonym Names	AFX; AFX1; FKHR3; MLLT7; Forkhead box protein O4; Afxh; Fork head domain transcription factor AFX1
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	FOXO4 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	53,649 Da
3D Structure	ModBase 3D Structure for Q9WVH3
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 FOXO4 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 FOXO4 sirna	RNA Interference (RNAi)
Related Product Information for FOXO4 sirna	MBS8238818 is an siRNA targeting FOXO4. Also known as FOXO4 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit FOXO4 expression using RNA interference
Other Notes	Small volumes of FOXO4 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 FOXO4. It may not necessarily be applicable to this product.

NCBI GI #	9055158

NCBI GeneID	54601
NCBI Accession #	NP_061259.1
UniProt Primary Accession #	Q9WVH3
UniProt Related Accession #	Q9WVH3
GenBank Nucleotide #	NM_018789.2
NCBI Official Full Name	forkhead box protein O4
NCBI Official Synonym Full Names	forkhead box O4
NCBI Official Symbol	Foxo4
NCBI Official Synonym Symbols	afx; Afxh; Mllt7
UniProt Protein Name	Forkhead box protein O4
UniProt Synonym Protein Names	Afxh; Fork head domain transcription factor AFX1
Protein Family	Forkhead box protein
UniProt Gene Name	Foxo4
UniProt Synonym Gene Names	Afx; Afx1; Fkhr3; Mllt7
UniProt Entry Name	FOXO4_MOUSE
NCBI Protein Information	forkhead box protein O4
UniProt Comments for FOXO4	FOXO4: transcription factor AFX1 containing 1 fork-head domain. May play a role in the insulin signaling pathway. Involved in acute leukemias by a chromosomal translocation t(X;11)(q13;q23) that involves MLLT7 and MLL/HRX. The result is a rogue activator protein. Two splice-variant isoforms have been described. Protein type: Oncoprotein; Transcription factor; DNA-binding Cellular Component: nucleoplasm; cytoplasm; cytosol; nucleus Molecular Function: protein binding; enzyme binding; DNA binding; sequence-specific DNA binding; transcription factor activity; transcription factor binding Biological Process: transcription from RNA polymerase II promoter; muscle development; transcription, DNA-dependent; multicellular organismal development; positive regulation of transcription, DNA-dependent; stem cell differentiation; negative regulation of smooth muscle cell differentiation; cell cycle; regulation of transcription from RNA polymerase II promoter; negative regulation of cell proliferation; negative regulation of angiogenesis; regulation of transcription, DNA-dependent; mitotic cell cycle G2/M transition DNA damage checkpoint; insulin receptor signaling pathway; cell differentiation; cell cycle arrest
Research Articles on FOXO4	**1.** FOXO1, FOXO3a and FOXO4, are indispensable for SIRT1-dependent cell survival against oxidative stress.
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