ATF5 siRNA – Cyclic AMP-Dependent Transcription Factor ATF-5 (Mouse)

PRODUCT OVERVIEW

Product Name	ATF5, siRNA
Full Product Name	ATF5 siRNA (Mouse)
Product Gene Name	ATF5 sirna
Product Synonym Names	ATFX; NAP1; Cyclic AMP-dependent transcription factor ATF-5; cAMP-dependent transcription factor ATF-5; Activating transcription factor 5-alpha/beta; BZIP protein ATF7; NAP1; NRIF3-associated protein; Transcription factor ATFx; Transcription factor-like protein ODA-10
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ATF5 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	30,331 Da
3D Structure	ModBase 3D Structure for O70191
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 ATF5 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 ATF5 sirna	RNA Interference (RNAi)
Related Product Information for ATF5 sirna	MBS8236771 is an siRNA targeting ATF5. Also known as ATF5 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit ATF5 expression using RNA interference
Other Notes	Small volumes of ATF5 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 ATF5. It may not necessarily be applicable to this product.

NCBI GI #	13507624
NCBI GeneID	107503
NCBI Accession #	NP_109618.1
UniProt Primary Accession #	O70191
UniProt Secondary Accession #	Q58E51; Q99NH6
UniProt Related Accession #	O70191
GenBank Nucleotide #	NM_030693.2
NCBI Official Full Name	cyclic AMP-dependent transcription factor ATF-5
NCBI Official Synonym Full Names	activating transcription factor 5
NCBI Official Symbol	Atf5
NCBI Official Synonym Symbols	AFTA; Atf7; Atfx; ODA-10
UniProt Protein Name	Cyclic AMP-dependent transcription factor ATF-5
UniProt Synonym Protein Names	Activating transcription factor 5-alpha/beta; BZIP protein ATF7; NAP1; NRIF3-associated protein; Transcription factor ATFx; Transcription factor-like protein ODA-10
Protein Family	Cyclic AMP-dependent transcription factor
UniProt Gene Name	Atf5
UniProt Synonym Gene Names	Atfx; Nap1; cAMP-dependent transcription factor ATF-5
UniProt Entry Name	ATF5_MOUSE
NCBI Protein Information	cyclic AMP-dependent transcription factor ATF-5
UniProt Comments for ATF5	ATF-5: Transcriptional activator which binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters and blocks the differentiation of neuroprogenitor cells into neurons. Its transcriptional activity is enhanced by CCND3 and slightly inhibited by CDK4. Belongs to the bZIP family. Protein type: DNA-binding Cellular Component: nucleoplasm; transcription factor complex; cytoplasm; nucleus Molecular Function: protein binding; DNA binding; sequence-specific DNA binding; heat shock protein binding; transcription factor activity Biological Process: transcription, DNA-dependent; olfactory bulb interneuron development; regulation of cell cycle; multicellular organism growth; olfactory lobe development; olfactory bulb interneuron differentiation; negative regulation of neurogenesis; post-embryonic development; regulation of cell proliferation; regulation of transcription from RNA polymerase II promoter; regulation of transcription, DNA-dependent; regulation of gene expression; negative regulation of astrocyte differentiation; positive regulation of transcription from RNA polymerase II promoter; negative regulation of apoptosis
Research Articles on ATF5	**1.** Data indicate that downregulation of ATF5 inhibits adipogenesis through C/EBPalpha by impairing the interaction with p300-C/EBPbeta.
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