TRAP1 siRNA – Heat Shock Protein 75 Kda, Mitochondrial (Mouse)

PRODUCT OVERVIEW

Product Name	TRAP1, siRNA
Full Product Name	TRAP1 siRNA (Mouse)
Product Gene Name	TRAP1 sirna
Product Synonym Names	HSP75; Heat shock protein 75 kDa mitochondrial; HSP 75; TNFR-associated protein 1; Tumor necrosis factor type 1 receptor-associated protein; TRAP-1
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	TRAP1 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	80,209 Da
3D Structure	ModBase 3D Structure for Q9CQN1
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 TRAP1 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 TRAP1 sirna	RNA Interference (RNAi)
Related Product Information for TRAP1 sirna	MBS8210509 is an siRNA targeting TRAP1. Also known as TRAP1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit TRAP1 expression using RNA interference
Other Notes	Small volumes of TRAP1 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 TRAP1. It may not necessarily be applicable to this product.

NCBI GI #	13385998

NCBI GeneID	68015
NCBI Accession #	NP_080784.1
UniProt Primary Accession #	Q9CQN1
UniProt Secondary Accession #	Q542I4
UniProt Related Accession #	Q9CQN1
GenBank Nucleotide #	NM_026508.2
NCBI Official Full Name	heat shock protein 75 kDa, mitochondrial
NCBI Official Synonym Full Names	TNF receptor-associated protein 1
NCBI Official Symbol	Trap1
NCBI Official Synonym Symbols	HSP75; 2410002K23Rik
UniProt Protein Name	Heat shock protein 75 kDa, mitochondrial
UniProt Synonym Protein Names	TNFR-associated protein 1; Tumor necrosis factor type 1 receptor-associated protein; TRAP-1
Protein Family	Heat shock protein
UniProt Gene Name	Trap1
UniProt Synonym Gene Names	Hsp75; HSP 75; TRAP-1
UniProt Entry Name	TRAP1_MOUSE
NCBI Protein Information	heat shock protein 75 kDa, mitochondrial
UniProt Comments for TRAP1	HSP75: Chaperone that expresses an ATPase activity. Belongs to the heat shock protein 90 family. Protein type: Chaperone; Heat shock protein Cellular Component: nucleoplasm; membrane; mitochondrion; mitochondrial matrix; mitochondrial inner membrane; mitochondrial intermembrane space Molecular Function: unfolded protein binding; nucleotide binding; protein kinase binding; ATP binding Biological Process: protein folding; response to stress
Research Articles on TRAP1	**1.** overexpression of TRAP1 leads to mitochondrial aberrations, including an increase in basal ROS levels and decrease in mitochondrial biogenesis, together with a decrease in peroxisome proliferator-activated receptor gamma coactivator-1alpha mRNA levels
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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