SOCS7 siRNA – Suppressor of Cytokine Signaling 7 (Mouse)

PRODUCT OVERVIEW

Product Name	SOCS7, siRNA
Full Product Name	SOCS7 siRNA (Mouse)
Product Gene Name	SOCS7 sirna
Product Synonym Names	CISH7; NAP4; Suppressor of cytokine signaling 7; SOCS-7
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SOCS7 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	62,784 Da
3D Structure	ModBase 3D Structure for Q8VHQ2
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 SOCS7 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 SOCS7 sirna	RNA Interference (RNAi)
Related Product Information for SOCS7 sirna	MBS8232399 is an siRNA targeting SOCS7. Also known as SOCS7 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit SOCS7 expression using RNA interference
Other Notes	Small volumes of SOCS7 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 SOCS7. It may not necessarily be applicable to this product.

NCBI GI #	20149738

NCBI GeneID	192157
NCBI Accession #	NP_619598.1
UniProt Primary Accession #	Q8VHQ2
UniProt Secondary Accession #	Q3UH08; B1AQY1
UniProt Related Accession #	Q8VHQ2
GenBank Nucleotide #	NM_138657.3
NCBI Official Full Name	suppressor of cytokine signaling 7
NCBI Official Synonym Full Names	suppressor of cytokine signaling 7
NCBI Official Symbol	Socs7
NCBI Official Synonym Symbols	Nap4; C85125; 2310063P06Rik
UniProt Protein Name	Suppressor of cytokine signaling 7
Protein Family	Suppressor of cytokine signaling
UniProt Gene Name	Socs7
UniProt Synonym Gene Names	Cish7; Nap4; SOCS-7
UniProt Entry Name	SOCS7_MOUSE
NCBI Protein Information	suppressor of cytokine signaling 7
UniProt Comments for SOCS7	SOCS7: Regulates signaling cascades probably through protein ubiquitination and/or sequestration. Functions in insulin signaling and glucose homeostasis through IRS1 ubiquitination and subsequent proteasomal degradation. Inhibits also prolactin, growth hormone and leptin signaling by preventing STAT3 and STAT5 activation, sequestering them in the cytoplasm and reducing their binding to DNA. May be a substrate recognition component of a SCF- like E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Inhibitor; Motility/polarity/chemotaxis Cellular Component: intracellular membrane-bound organelle; membrane; cytoplasm; nucleolus; plasma membrane; nucleus Molecular Function: protein binding; protein kinase inhibitor activity Biological Process: fat cell differentiation; radial glia guided migration of Purkinje cell; cytokine and chemokine mediated signaling pathway; regulation of growth; insulin receptor signaling pathway; protein ubiquitination; negative regulation of protein kinase activity; cerebral cortex radially oriented cell migration; negative regulation of JAK-STAT cascade; layer formation in the cerebral cortex; negative regulation of signal transduction
Research Articles on SOCS7	**1.** Data implicate SOCS7 in the modulation of allergic inflammation and demonstrate that SOCS7 is involved in the regulation of TSLP signaling in mast cells.
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