TNFSF4 siRNA – Tumor Necrosis Factor Ligand Superfamily Member 4 (Mouse)

PRODUCT OVERVIEW

Product Name	TNFSF4, siRNA
Full Product Name	TNFSF4 siRNA (Mouse)
Product Gene Name	TNFSF4 sirna
Product Synonym Names	OX40L; TXGP1L; Tumor necrosis factor ligand superfamily member 4; OX40 ligand; OX40L; CD antigen CD252
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	TNFSF4 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	22,255 Da
3D Structure	ModBase 3D Structure for P43488
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 TNFSF4 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 TNFSF4 sirna	RNA Interference (RNAi)
Related Product Information for TNFSF4 sirna	MBS8229001 is an siRNA targeting TNFSF4. Also known as TNFSF4 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit TNFSF4 expression using RNA interference
Other Notes	Small volumes of TNFSF4 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 TNFSF4. It may not necessarily be applicable to this product.

NCBI GI #	6678473

NCBI GeneID	22164
NCBI Accession #	NP_033478.1
UniProt Primary Accession #	P43488
UniProt Related Accession #	P43488
GenBank Nucleotide #	NM_009452.2
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 4
NCBI Official Synonym Full Names	tumor necrosis factor (ligand) superfamily, member 4
NCBI Official Symbol	Tnfsf4
NCBI Official Synonym Symbols	Ath1; gp34; Ath-1; Ox40l; TXGP1; CD134L; OX-40L; Txgp1l
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 4
UniProt Synonym Protein Names	OX40 ligand; OX40L; CD_antigen: CD252
Protein Family	Tumor necrosis factor ligand superfamily
UniProt Gene Name	Tnfsf4
UniProt Synonym Gene Names	Ox40l; Txgp1l; OX40L
UniProt Entry Name	TNFL4_MOUSE
NCBI Protein Information	tumor necrosis factor ligand superfamily member 4
UniProt Comments for TNFSF4	TNFSF4: Cytokine that binds to TNFRSF4. Co-stimulates T-cell proliferation and cytokine production. Genetic variations in TNFSF4 influence susceptibility to systemic lupus erythematosus (SLE). SLE is a chronic, inflammatory and often febrile multisystemic disorder of connective tissue. It affects principally the skin, joints, kidneys and serosal membranes. It is thought to represent a failure of the regulatory mechanisms of the autoimmune system. The upstream region of TNFSF4 contains a single risk haplotype for SLE, which is correlated with increased expression of both cell-surface TNFSF4 and TNFSF4 transcripts. Increased levels of TNFSF4 are thought to augment T-cell-APC interaction and the functional consequences of T-cell activation, thereby destabilizing peripheral tolerance. Belongs to the tumor necrosis factor family. Protein type: Cytokine; Cell cycle regulation; Membrane protein, integral Cellular Component: extracellular space; cell surface; membrane; integral to membrane Molecular Function: cytokine activity; tumor necrosis factor receptor superfamily binding; tumor necrosis factor receptor binding Biological Process: negative regulation of T-helper 1 cell differentiation; positive regulation of interleukin-12 production; negative regulation of cytokine secretion; positive regulation of T cell cytokine production; positive regulation of activated T cell proliferation; defense response to nematode; positive regulation of interleukin-10 production; positive regulation of interleukin-4 production; T cell proliferation; positive regulation of immune effector process; regulation of adaptive immune response; positive regulation of T-helper 2 cell differentiation; negative regulation of regulatory T cell differentiation; negative regulation of interferon-gamma production; positive regulation of interleukin-13 production; inflammatory response; positive regulation of memory T cell differentiation; cholesterol metabolic process; blood vessel development; positive regulation of T-helper 2 type immune response; negative regulation of transcription factor activity; response to virus; positive regulation of immunoglobulin mediated immune response; positive regulation of interleukin-6 production; cytokine production; positive regulation of immunoglobulin secretion; positive regulation of CD4-positive, alpha beta T cell differentiation; positive regulation of interferon-gamma production; negative regulation of interleukin-17 production; positive regulation of B cell activation; regulation of inflammatory response; positive regulation of interleukin-2 production; innate immune response; positive regulation of alpha-beta T cell proliferation; immune response; negative regulation of transcription, DNA-dependent; acute inflammatory response; positive regulation of inflammatory response
Research Articles on TNFSF4	**1.** a critical role of OX40L presented by the activated basophils to initiate Th2 responses in an allergic asthma model, implicating OX40-OX40L signaling as a potential therapeutic target in the treatment of allergic airway inflammation.

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