CCL12 siRNA – C-C Motif Chemokine 12 (Mouse)

PRODUCT OVERVIEW

Product Name	CCL12, siRNA
Full Product Name	CCL12 siRNA (Mouse)
Product Gene Name	CCL12 sirna
Product Synonym Names	MCP5; SCYA12; C-C motif chemokine 12; MCP-1-related chemokine; Monocyte chemoattractant protein 5; Monocyte chemotactic protein 5; MCP-5; Small-inducible cytokine A12
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CCL12 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	11,659 Da
3D Structure	ModBase 3D Structure for Q62401
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 CCL12 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 CCL12 sirna	RNA Interference (RNAi)
Related Product Information for CCL12 sirna	MBS827879 is an siRNA targeting CCL12. Also known as CCL12 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit CCL12 expression using RNA interference
Other Notes	Small volumes of CCL12 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 CCL12. It may not necessarily be applicable to this product.

NCBI GI #	119226206

NCBI GeneID	20293
NCBI Accession #	NP_035461.2
UniProt Primary Accession #	Q62401
UniProt Secondary Accession #	Q9QYD6
UniProt Related Accession #	Q62401
GenBank Nucleotide #	NM_011331.2
NCBI Official Full Name	C-C motif chemokine 12
NCBI Official Synonym Full Names	chemokine (C-C motif) ligand 12
NCBI Official Symbol	Ccl12
NCBI Official Synonym Symbols	MCP-5; Scya12
UniProt Protein Name	C-C motif chemokine 12
UniProt Synonym Protein Names	MCP-1-related chemokine; Monocyte chemoattractant protein 5; Monocyte chemotactic protein 5; MCP-5; Small-inducible cytokine A12
Protein Family	C-C motif chemokine
UniProt Gene Name	Ccl12
UniProt Synonym Gene Names	Mcp5; Scya12; MCP-5
UniProt Entry Name	CCL12_MOUSE
NCBI Protein Information	C-C motif chemokine 12
UniProt Comments for CCL12	CCL2: Chemotactic factor that attracts monocytes and basophils but not neutrophils or eosinophils. Augments monocyte anti-tumor activity. Has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis or atherosclerosis. May be involved in the recruitment of monocytes into the arterial wall during the disease process of atherosclerosis. Monomer or homodimer; in equilibrium. Binds to CCR2 and CCR4. Is tethered on endothelial cells by glycosaminoglycan (GAG) side chains of proteoglycans. Belongs to the intercrine beta (chemokine CC) family. Protein type: Secreted; Motility/polarity/chemotaxis; Secreted, signal peptide; Chemokine Cellular Component: extracellular space; extracellular region; intracellular Molecular Function: CCR2 chemokine receptor binding; chemokine activity; cytokine activity Biological Process: positive regulation of leukocyte migration; cytokine and chemokine mediated signaling pathway; MAPKKK cascade; cytoskeleton organization and biogenesis; chemotaxis; macrophage chemotaxis; monocyte chemotaxis; regulation of cell shape; lipopolysaccharide-mediated signaling pathway; protein kinase B signaling cascade; immune response; negative regulation of neuron apoptosis; angiogenesis; inflammatory response; astrocyte cell migration
Research Articles on CCL12	**1.** tumours are characterized by expression of inflammatory chemokines (CCL2, CCL5, CCL7, CCL8, CCL12, CXCL9, CXCL10 and CX3CL1), reflected by an enrichment of activated Foxp3(-) and Foxp3(+) T cells
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