CCR4 siRNA – C-C Chemokine Receptor Type 4 (Mouse)

PRODUCT OVERVIEW

Product Name	CCR4, siRNA
Full Product Name	CCR4 siRNA (Mouse)
Product Gene Name	CCR4 sirna
Product Synonym Names	CMKBR4; C-C chemokine receptor type 4; C-C CKR-4; CC-CKR-4; CCR-4; CCR4; CD antigen CD194
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CCR4 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	41,408 Da
3D Structure	ModBase 3D Structure for P51680
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 CCR4 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 CCR4 sirna	RNA Interference (RNAi)
Related Product Information for CCR4 sirna	MBS8208062 is an siRNA targeting CCR4. Also known as CCR4 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit CCR4 expression using RNA interference
Other Notes	Small volumes of CCR4 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 CCR4. It may not necessarily be applicable to this product.

NCBI GI #	162287123

NCBI GeneID	12773
NCBI Accession #	NP_034046.2
UniProt Primary Accession #	P51680
UniProt Secondary Accession #	Q14A03
UniProt Related Accession #	P51680
GenBank Nucleotide #	NM_009916.2
NCBI Official Full Name	C-C chemokine receptor type 4
NCBI Official Synonym Full Names	chemokine (C-C motif) receptor 4
NCBI Official Symbol	Ccr4
NCBI Official Synonym Symbols	LESTR; Sdf1r; CHEMR1; Cmkbr4; C-C CKR-4
UniProt Protein Name	C-C chemokine receptor type 4
UniProt Synonym Protein Names	CD_antigen: CD194
Protein Family	C-C chemokine receptor
UniProt Gene Name	Ccr4
UniProt Synonym Gene Names	Cmkbr4; C-C CKR-4; CC-CKR-4; CCR-4; CCR4
UniProt Entry Name	CCR4_MOUSE
NCBI Protein Information	C-C chemokine receptor type 4
UniProt Comments for CCR4	CCR4: High affinity receptor for the C-C type chemokines CCL17/TARC and CCL22/MDC. The activity of this receptor is mediated by G(i) proteins which activate a phosphatidylinositol- calcium second messenger system. Can function as a chemoattractant homing receptor on circulating memory lymphocytes and as a coreceptor for some primary HIV-2 isolates. In the CNS, could mediate hippocampal-neuron survival. Belongs to the G-protein coupled receptor 1 family. Protein type: GPCR, family 1; Motility/polarity/chemotaxis; Membrane protein, multi-pass; Receptor, GPCR; Membrane protein, integral Cellular Component: membrane; cell soma; integral to membrane; plasma membrane; external side of plasma membrane Molecular Function: G-protein coupled receptor activity; signal transducer activity; C-C chemokine receptor activity; chemokine receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; positive regulation of positive chemotaxis; neuron migration; immune response; chemotaxis; signal transduction; inflammatory response; tolerance induction
Research Articles on CCR4	**1.** These data have uncovered a novel role of core components of the Ccr4-Not complex as regulators of transition from partial to genuine induced pluripotent stem cells.
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