IL10RA siRNA – Interleukin-10 Receptor Subunit Alpha (Mouse)

PRODUCT OVERVIEW

Product Name	IL10RA, siRNA
Full Product Name	IL10RA siRNA (Mouse)
Product Gene Name	IL10RA sirna
Product Synonym Names	IL10R; Interleukin-10 receptor subunit alpha; IL-10 receptor subunit alpha; IL-10R subunit alpha; IL-10RA; CDw210a; Interleukin-10 receptor subunit 1; IL-10R subunit 1; IL-10R1; CD antigen CD210
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	IL10RA siRNA (Mouse) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Store at -20 degree C.
3D Structure	ModBase 3D Structure for Q61727
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 recommend 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 IL10RA 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 IL10RA sirna	RNA Interference (RNAi)
Related Product Information for IL10RA sirna	MBS8233379 is an siRNA targeting IL10RA. Also known as IL10RA siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit IL10RA expression using RNA interference
Other Notes	Small volumes of IL10RA 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 IL10RA. It may not necessarily be applicable to this product.

NCBI GI #	6680389
NCBI GeneID	16154

NCBI Accession #	NP_032374.1
UniProt Primary Accession #	Q61727
UniProt Related Accession #	Q61727
GenBank Nucleotide #	NM_008348.2
NCBI Official Full Name	interleukin-10 receptor subunit alpha
NCBI Official Synonym Full Names	interleukin 10 receptor, alpha
NCBI Official Symbol	Il10ra
NCBI Official Synonym Symbols	Il10r; CDw210; CDw210a; mIL-10R; AW553859
UniProt Protein Name	Interleukin-10 receptor subunit alpha
UniProt Synonym Protein Names	CDw210a; Interleukin-10 receptor subunit 1; IL-10R subunit 1; IL-10R1; CD_antigen: CD210
Protein Family	Interleukin-10 receptor
UniProt Gene Name	Il10ra
UniProt Synonym Gene Names	Il10r; IL-10 receptor subunit alpha; IL-10R subunit alpha; IL-10RA; IL-10R subunit 1; IL-10R1
UniProt Entry Name	I10R1_MOUSE
NCBI Protein Information	interleukin-10 receptor subunit alpha
UniProt Comments for IL10RA	IL10RA: a receptor for interleukin 10 structurally related to interferon receptors. Mediates the immunosuppressive signal of interleukin 10, and thus inhibits the synthesis of proinflammatory cytokines. This receptor is reported to promote survival of progenitor myeloid cells through the insulin receptor substrate-2/PI 3-kinase/AKT pathway. Activation of this receptor leads to tyrosine phosphorylation of JAK1 and TYK2 kinases. Protein type: Receptor, cytokine; Membrane protein, integral Cellular Component: membrane; integral to membrane; plasma membrane Molecular Function: interleukin-10 binding; interleukin-10 receptor activity Biological Process: cytokine and chemokine mediated signaling pathway
Research Articles on IL10RA	**1.** loss of IL-10 receptor expression impaired the critical conditioning of monocyte-derived macrophages and resulted in spontaneous development of severe colitis.
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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