Il-10r Alpha Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	IL-10R alpha, Blocking Peptide
Full Product Name	IL-10R alpha Blocking Peptide
Product Gene Name	IL-10R alpha blocking peptide
Product Synonym Names	CD210; CDw210a; CDw210a antigen; HIL 10R; HIL10R; I10R1_HUMAN; IL 10R 1; IL 10R A; IL 10R; IL 10R1; IL-10 receptor subunit alpha; IL-10R subunit 1; IL-10R subunit alpha; IL-10R1; IL-10RA; IL10R; IL10R1; IL10RA; Interleukin 10 receptor alpha; Interleukin 10 receptor alpha chain; Interleukin-10 receptor subunit 1; Interleukin-10 receptor subunit alpha
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	IL-10R alpha peptide (MBS9626015) is used for blocking the activity of IL-10R alpha antibody (MBS9607299)
Molecular Weight	63,003 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (117857106..117872198). Location: 11q23
OMIM	146933
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for IL-10R alpha blocking peptide	Blocking/Control
Related Product Information for IL-10R alpha blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of IL-10R alpha blocking peptide 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.
Searchable Terms for IL-10R alpha purchase	MBS9626015 is a blocking peptide targeting IL-10R alpha.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL-10R alpha. It may not necessarily be applicable to this product.

NCBI GI #	222136575
NCBI GeneID	3587

NCBI Accession #	NP_001549.2
UniProt Primary Accession #	Q13651
UniProt Secondary Accession #	A8K6I0; B0YJ27
UniProt Related Accession #	Q13651
GenBank Nucleotide #	NM_001558.3
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	CD210; IL10R; CD210a; CDW210A; HIL-10R; IL-10R1
UniProt Protein Name	Interleukin-10 receptor subunit alpha
UniProt Synonym Protein Names	CDw210a; Interleukin-10 receptor subunit 1
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_HUMAN
NCBI Protein Information	interleukin-10 receptor subunit alpha; IL-10RA; IL-10R subunit 1; IL-10R subunit alpha; IL-10 receptor subunit alpha; interleukin-10 receptor subunit 1; interleukin-10 receptor alpha chain
NCBI Summary for IL-10R alpha	The protein encoded by this gene is a receptor for interleukin 10. This protein is structurally related to interferon receptors. It has been shown to mediate 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. Two transcript variants, one protein-coding and the other not protein-coding, have been found for this gene. [provided by RefSeq, Jan 2009]
UniProt Comments for IL-10R alpha	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: Membrane protein, integral; Receptor, cytokine Chromosomal Location of Human Ortholog: 11q23 Cellular Component: plasma membrane; integral to membrane Molecular Function: signal transducer activity; protein binding; interleukin-10 binding; interleukin-10 receptor activity; receptor activity Biological Process: cytokine and chemokine mediated signaling pathway; response to lipopolysaccharide Disease: Inflammatory Bowel Disease 28, Autosomal Recessive
Research Articles on IL-10R alpha	**1.** The dynamic genome-wide transcriptional responses were nearly identical at early time points following stimulation (when STAT3 is active in response to both IL-6 and IL-10) but divergent at later times (when STAT3 is active only in response to IL-10).
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