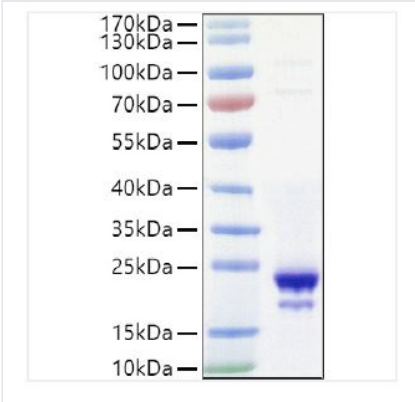
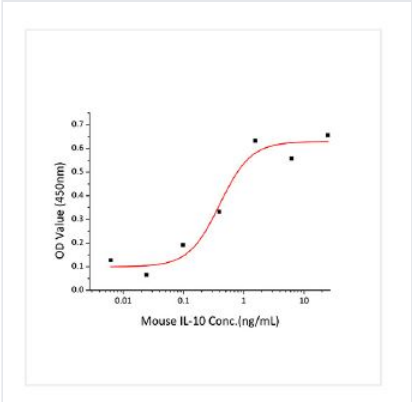
IL-10 Recombinant Mouse Active Protein

PRODUCT OVERVIEW

Product Name	IL-10, Active Protein
Full Product Name	Active Recombinant Mouse IL-10 Protein
Product Gene Name	IL-10 active protein
Product Synonym Names	IL-; CSIF; If2a; Il-10; IL10
Host	HEK293 cells
Form/Format	Liquid Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4.
Purity/Purification	> 90% by SDS-PAGE.
Preparation and Storage	Store the lyophilized protein at -20 to -80 degree C for 12 months. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week. Avoid repeated freeze/thaw cycles. Ship: Ice Pack
Molecular Weight	20,641 Da
3D Structure	ModBase 3D Structure for P18893
Active Protein Note	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product.
Species	Mouse
Tag	C-His
Bioactivity	Measured in a cell proliferation assay using MC/9-2 mouse mast cells. The ED50 for this effect is 0.2-0.8 ng/mL.
Product Categories/Family for IL-10 active protein	Other Recombinant Protein
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IL-10 active protein	Active Recombinant Mouse IL-10 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser19-Ser178) of mouse IL10 (Accession #NP_034678.1.) fused with a 6×His tag at the C-terminus.
Other Notes	Small volumes of IL-10 active protein 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-10 purchase	MBS9146755 is an active protein targeting IL-10. Also known as Active Recombinant Mouse IL-10 Protein. Host: HEK293 cells.



SDS-Page of IL-10 active protein
Recombinant Mouse IL-10 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20-24kDa.



Testing Data of IL-10 active protein
Recombinant Mouse IL-10 promotes proliferation of MC/9 2 mouse mast cells. The ED50 for this effect is 0.2-0.8 ng/mL.

ADDITIONAL DETAILS

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

NCBI GI #	6754318
NCBI GeneID	16153
NCBI Accession #	NP_034678.1
UniProt Primary Accession #	P18893
UniProt Secondary Accession #	Q0VBJ1
UniProt Related Accession #	P18893
GenBank Nucleotide #	NM_010548.2
NCBI Official Full Name	interleukin-10
NCBI Official Synonym Full Names	interleukin 10
NCBI Official Symbol	Il10
NCBI Official Synonym Symbols	CSIF; Il-10
UniProt Protein Name	Interleukin-10
UniProt Synonym Protein Names	Cytokine synthesis inhibitory factor; CSIF
UniProt Gene Name	Il10
UniProt Synonym Gene Names	Il-10; IL-10; CSIF
UniProt Entry Name	IL10_MOUSE
NCBI Protein Information	interleukin-10; cytokine synthesis inhibitory factor

UniProt Comments for IL-10	IL10: Inhibits the synthesis of a number of cytokines, including IFN-gamma, IL-2, IL-3, TNF and GM-CSF produced by activated macrophages and by helper T-cells. Belongs to the IL-10 family. Protein type: Secreted; Motility/polarity/chemotaxis; Cytokine; Secreted, signal peptide Cellular Component: extracellular space; extracellular region Molecular Function: cytokine activity; interleukin-10 receptor binding Biological Process: negative regulation of chronic inflammatory response to antigenic stimulus; positive regulation of transcription, DNA-dependent; response to glucocorticoid stimulus; positive regulation of JAK-STAT cascade; negative regulation of B cell proliferation; negative regulation of membrane protein ectodomain proteolysis; positive regulation of MHC class II biosynthetic process; response to molecule of bacterial origin; negative regulation of interferon-gamma production; negative regulation of interleukin-6 production; negative regulation of tumor necrosis factor biosynthetic process; inflammatory response; negative regulation of interleukin-12 production; positive regulation of B cell apoptosis; negative regulation of myeloid dendritic cell activation; negative regulation of nitric oxide biosynthetic process; negative regulation of tumor necrosis factor production; negative regulation of cytokine secretion during immune response; regulation of gene expression; negative regulation of inflammatory response; defense response to bacterium; negative regulation of cytokine production; immune response; positive regulation of transcription factor activity; positive regulation of transcription from RNA polymerase II promoter; regulation of sensory perception of pain; receptor biosynthetic process; positive regulation of cytokine secretion; negative regulation of apoptosis
Research Articles on IL-10	**1.** Dystrophin-deficient transgenic mice develop severe cardiac and respiratory dysfunction following genetic ablation of the anti-inflammatory cytokine IL-10.
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