

## Active Recombinant Mouse Il10 Protein

Cat. No. II10-082M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of Mouse interleukin 10 (Il10) without tag was expressed in E.coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	This gene encodes an anti-inflammatory cytokine that is a member of the class-2 cytokine family. The encoded protein is secreted by cells of both the innate and adaptive immune systems and is crucial for limiting the immune response to a broad range of pathogens. It also has been shown to suppress autoimmune responses. This protein mediates it's immunosuppressive signal through a specific interleukin 10 receptor complex. Aberrant functioning of this gene is associated with numerous immune disorders including graft-versus-host disease, and increased susceptibility to HIV-1 infection and rheumatoid arthritis.
<b>Bio-activity</b>	The biological activity of murine IL-10 is measured by the dose-dependent co-stimulation (with IL-4) of the proliferation of murine MC/9 cells. The ED50 was found to be > 2 ng/ml, corresponding to a specific activity of > 5 x 10 <sup>5</sup> units/mg.
<b>Molecular Mass</b>	18.7 kDa
<b>AA Sequence</b>	MSRGQYSREDNNCTHFPVGGQSHMLLELRTAFSQVKTFQTKDQLDNILLTDSLMDQ FKGYLGCQALSEMIQFYLVVMPQAEKHGPEIKEHLNSLGQKLKTLRMRLRRCHRFL PCENKSKAVEQVKSDFNKLEDQGVYKAMNEFDIFINCIEAYMMIKMKS

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<b>Endotoxin</b>	Endotoxin level is < 0.1 ng/g of protein (< 1 EU/g)
<b>Purity</b>	>95%, as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade.
<b>Storage Buffer</b>	Lyophilized from a 0.2 M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
<b>Reconstitution</b>	Resuspend the protein in the desired concentration in proper buffer.

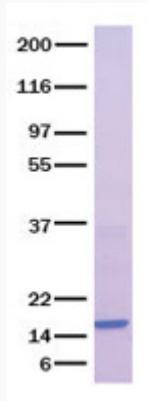
## GENE INFORMATION

<b>Gene Name</b>	Il10 interleukin 10 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Il10
<b>Synonyms</b>	Il10; interleukin 10; CSIF; Il-10; interleukin-10; cytokine synthesis inhibitory factor
<b>Gene ID</b>	16153
<b>mRNA Refseq</b>	NM_010548
<b>Protein Refseq</b>	NP_034678
<b>UniProt ID</b>	P18893

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