

Active Recombinant Mouse Il10 Protein

Cat. No. Il10-082M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse interleukin 10 (Il10) without tag was expressed in E.coli.
Species	Mouse
Source	E.coli
Description	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.
Bio-activity	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 ⁵ units/mg.
Molecular Mass	18.7 kDa
AA Sequence	MSRGQYSREDNNCTHFPVGQSHMLLELRTAFSQVKTFQTKDQLDNILLTDSLMQD FKGYLGCQALSEMIQFYLVEMPQAEKHGPEIKEHLNSLGQKLKTLRMRLRRCHRFL PCENKSKAVEQVKSDFNKLEDQGVYKAMNEFDIFINCIEAYMMIKMKS

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

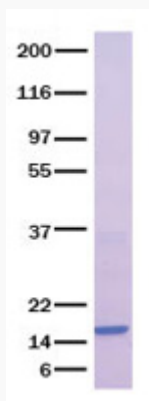
GENE INFORMATION

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

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