

Recombinant Mouse interleukin 10 Protein, His&Flag tagged

Cat. No. II10-040M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse IL-10 protein (P18893) (Ser 19-Ser 178) with both His, Flag tag at the C-terminus was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	19-178aa
Description	IL-10 is a cytokine with multiple, pleiotropic, effects in immunoregulation and inflammation. It downregulates the expression of Th1 cytokines, MHC class II antigens, and co-stimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. IL-10 can block NF-κB activity, and is involved in the regulation of the JAK-STAT signaling pathway. Over time a more nuanced picture of IL-10's function has emerged as treatment of tumor bearing mice has been shown to inhibit tumor metastasis. Additional investigation by multiple laboratories has generated data that further supports IL-10's immunostimulatory capacity in an immunoncology context. Expression of IL-10 from transfected tumor cell lines in IL-10 transgenic mice[30] or dosing with IL-10 leads to control of primary tumor growth and decreased metastatic burden. More recently, PEGylated recombinant murine IL-10 (PEG-rMuIL-10) has been shown to induce IFNγ and CD8+ T cell dependent anti-tumor immunity. More specifically, PEGylated recombinant human IL-10 (PEG-rHuIL-10) has been shown to enhance CD8+ T cell secretion of the cytotoxic molecules Granzyme B and Perforin and potentiate T cell receptor

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dependent IFN γ secretion. A study in mice has shown that IL-10 is also produced by mast cells, counteracting the inflammatory effect that these cells have at the site of an allergic reaction.

Tag	C-His&Flag
Molecular Mass	21.4 kDa
Endotoxin	Less than 1.0 EU/ μ g by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μ m filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μ g/mL in sterile water.

GENE INFORMATION

Gene Name	Il10 interleukin 10 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Il10
Synonyms	IL10; interleukin 10; interleukin-10; cytokine synthesis inhibitory factor; CSIF; IL-10;
Gene ID	16153

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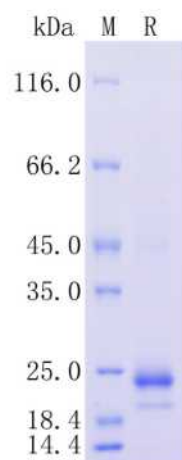
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mRNA Refseq [NM_010548](#)

Protein Refseq [NP_034678](#)

UniProt ID [P18893](#)

**Protein on SDS-
PAGE under
reducing (R)
condition.**



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