

## Recombinant Mouse interleukin 10 Protein, His&Flag tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse IL-10 protein (P18893) (Ser 19-Ser 178) with both His, Flag tag at the C-terminus was expressed in HEK293.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	19-178aa
<b>Description</b>	<p>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-<math>\kappa</math>B 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 IFN<math>\gamma</math> 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</p>

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dependent IFN $\gamma$  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/ $\mu$ 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  $\mu$ m filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.

**Reconstitution** Reconstitute at 250  $\mu$ g/mL in sterile water.

## GENE INFORMATION

**Gene Name** [Il10 interleukin 10 \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** [Il10](#)

**Synonyms** IL10; interleukin 10; interleukin-10; cytokine synthesis inhibitory factor; CSIF; Il-10;

**Gene ID** [16153](#)

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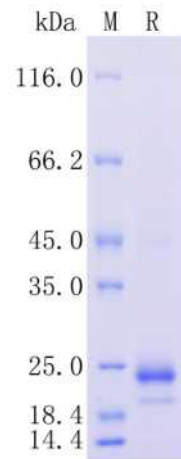
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mRNA Refseq [NM\\_010548](#)

Protein Refseq [NP\\_034678](#)

UniProt ID [P18893](#)

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



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