

## Active Recombinant Human IL10 Protein, Pre-aliquoted

Cat. No. IL10-13H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human IL10 Protein, Ser19 - Asn178, was expressed in Insect cell.

**Species** Human

**Source** Insect Cells

**ProteinLength** Ser19-Asn178

**Description** The protein encoded by this gene is a cytokine produced primarily by monocytes and to a lesser extent by lymphocytes. This cytokine has pleiotropic effects in immunoregulation and inflammation. It down-regulates the expression of Th1 cytokines, MHC class II Ags, and costimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. This cytokine can block NF-kappa B activity, and is involved in the regulation of the JAK-STAT signaling pathway. Knockout studies in mice suggested the function of this cytokine as an essential immunoregulator in the intestinal tract. Mutations in this gene are associated with an increased susceptibility to HIV-1 infection and rheumatoid arthritis.

**Bio-activity** Measured in a cell proliferation assay using MC/9-2 mouse mast cells. The ED50 for this effect is 0.15-0.75 ng/mL.

**Molecular Mass** Predicted Molecular Mass:18.6 kDa

**N-terminal Sequence Analysis** Ser19

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<b>Endotoxin</b>	< 0.10 EU/μg of the protein by the LAL method.
<b>Purity</b>	> 97% by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Stability</b>	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> <li>• 6 months from date of receipt at room temperature as supplied.</li> <li>• 12 months from date of receipt at 2-8 centigrade as supplied.</li> <li>• 1 month at 2-8 centigrade under sterile conditions after reconstitution.</li> <li>• 3 months at -20 to -80 centigrade under sterile conditions after reconstitution.</li> </ul>
<b>Reconstitution</b>	For a stock solution, reconstitute at 50 μg/mL in sterile PBS, or simply roll Pre-aliquoted directly into cell culture medium for immediate use.
<b>Shipping</b>	The product is shipped at ambient temperature.

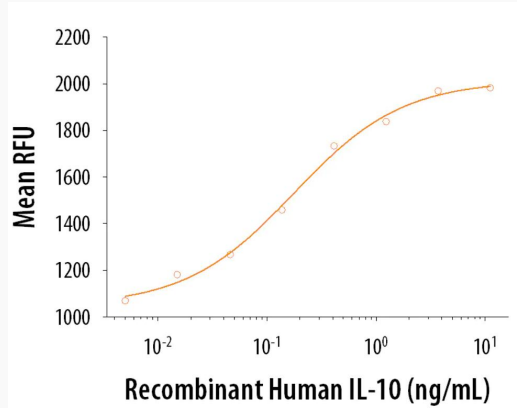
## GENE INFORMATION

<b>Gene Name</b>	IL10 interleukin 10 [ Homo sapiens (human) ]
<b>Official Symbol</b>	IL10
<b>Synonyms</b>	IL10; interleukin 10; CSIF; TGIF; GVHDS; IL-10; IL10A;
<b>Gene ID</b>	3586
<b>mRNA Refseq</b>	NM_000572
<b>Protein Refseq</b>	NP_000563
<b>MIM</b>	124092

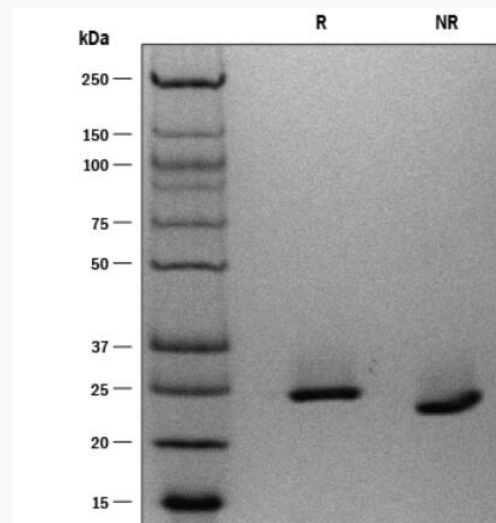
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**UniProt ID**
**P22301**
**Bio-activity**


Recombinant Human IL-10 induces proliferation of a MC/9-2 mouse mast cell line.  
The ED50 for this effect is 0.15-0.75 ng/mL.

**SDS-PAGE**


1 µg/lane of Recombinant Human IL-10 was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by silver staining,

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showing major bands at 18 kDa and 16 kDa, respectively.

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