

# Active Recombinant Human IL10 Protein (Ser19-Asn178), GMP Grade, Animal-Free

**Cat. No.** IL10-04HG    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	GMP Recombinant Human IL10 Protein, Ser19-Asn178, with an N-terminal Met was expressed in E. coli and produced using non-animal reagents in an animal-free laboratory under cGMP guidelines.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ser19-Asn178
<b>Description</b>	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.
<b>Form</b>	Noncovalently-linked homodimer
<b>Bio-activity</b>	Measured in a cell proliferation assay using MC/9-2 mouse mast cells. The ED50 for this effect is 0.0750-0.750 ng/mL.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

The specific activity of recombinant human IL-10 is  $>2.50 \times 10^6$  units/mg, which is calibrated against the human IL-10 WHO Reference Reagent.

**Molecular Mass**

Predicted Molecular Mass: 19 kDa  
SDS-PAGE: 18 kDa, reducing conditions

**N-terminal Sequence Analysis**

Met

**Endotoxin**

< 0.10 EU/μg of the protein by the LAL method.

**Purity**

> 97%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

**Storage**

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  
12 months from date of receipt, -20 to -70 centigrade as supplied.  
1 month, 2 to 8 centigrade under sterile conditions after reconstitution.  
3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

**Storage Buffer**

Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.

**Reconstitution**

Reconstitute at 100-500 μg/mL in PBS.

**Shipping**

The product is shipped with polar packs.

## GENE INFORMATION

**Gene Name**

IL10 interleukin 10 [ Homo sapiens ]

**Official Symbol**

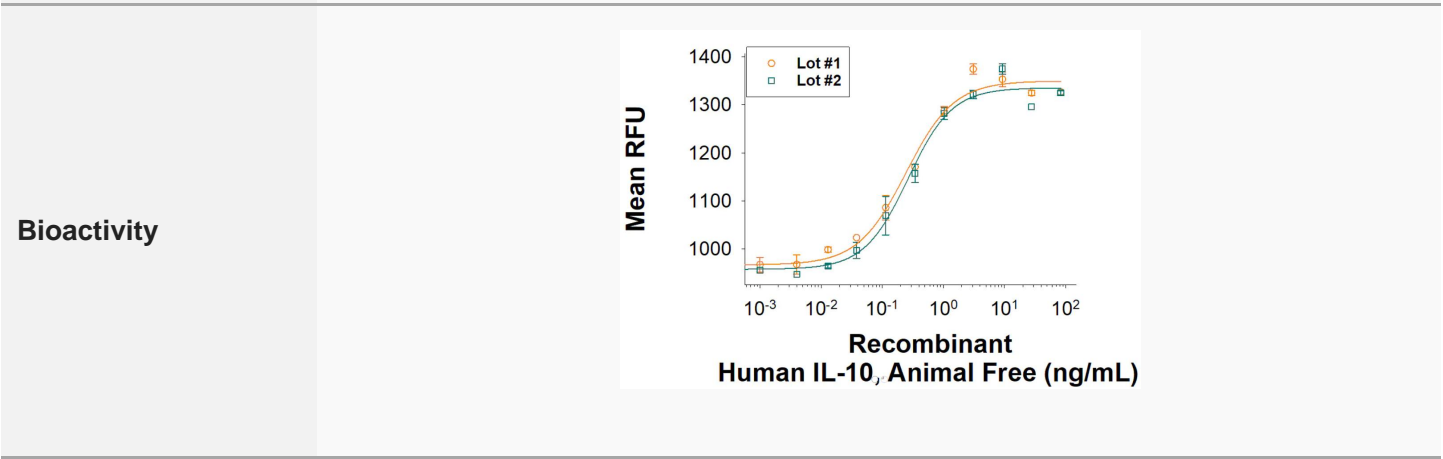
IL10

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Synonyms</b>	IL10; interleukin 10; interleukin-10; CSIF; cytokine synthesis inhibitory factor; IL 10; IL10A; T cell growth inhibitory factor; TGIF; T-cell growth inhibitory factor; GVHDS; IL-10; MGC126450; MGC126451
<b>Gene ID</b>	3586
<b>mRNA Refseq</b>	NM_000572
<b>Protein Refseq</b>	NP_000563
<b>MIM</b>	124092
<b>UniProt ID</b>	P22301

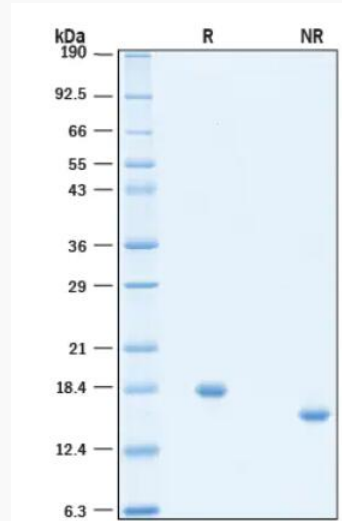


Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com) Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

**SDS-PAGE**



 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA