

## Active Recombinant Human IL10, HlgG1 Fc-tagged

**Cat. No.** IL10-566H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The extracellular domain of human IL-10 (NP_000563.1)(Ser19-Lys178) (Glu151Lys) is fused to the N-terminus of the Fc region of human IgG1 was expressed in CHO cell.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 19-178 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <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>             | Lyophilized from 0.2µm-filtered solution in PBS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Bio-activity</b>     | Bioactivity demonstrated in cytokine synthesis inhibition assay, measuring inhibition of IL-6 production by PU5-1 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 45 KDa (monomer)                                                                                                                    |
| <b>AA Sequence</b>    | (Ser19-Lys178) (Glu151Lys)                                                                                                          |
| <b>Endotoxin</b>      | <0.06 eu/μg="" as="" determined="" by="" lal="" test="">                                                                            |
| <b>Purity</b>         | >98%, by SDS-PAGE under reducing conditions.                                                                                        |
| <b>Stability</b>      | Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C. |
| <b>Reconstitution</b> | Reconstitute at 100μg/ml in sterile PBS.                                                                                            |
| <b>Warning</b>        | Avoid freeze/thaw cycles.                                                                                                           |

## GENE INFORMATION

|                        |                                                                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | IL10 interleukin 10 [ Homo sapiens ]                                                                                                                                                                        |
| <b>Official Symbol</b> | IL10                                                                                                                                                                                                        |
| <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                                                                                                                                                                                                   |

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| <b>MIM</b>                 | 124092                                                                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>          | P22301                                                                                                                                                                                                                                                                                                         |
| <b>Chromosome Location</b> | 1q31-q32                                                                                                                                                                                                                                                                                                       |
| <b>Pathway</b>             | African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Asthma, organism-specific biosystem; |
| <b>Function</b>            | cytokine activity; growth factor activity; interleukin-10 receptor binding;                                                                                                                                                                                                                                    |

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