

## Active Recombinant Human IL10 Protein, His-Tagged

Cat. No. IL10-02H Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human IL-10 Protein, His-tagged, was expressed in Baculovirus   |
| <b>Species</b>          | Human   |
| <b>Source</b>           | Insect Cells  |
| <b>ProteinLength</b>    | 166aa   |
| <b>Description</b>      | <p>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.</p> |
| <b>Applications</b>     | SDS-PAGE, Bioactivity   |
| <b>Endotoxin</b>        | < 1 EU per 1ug of protein (determined by LAL method)  |
| <b>Bio-activity</b>     | Measured in a cell proliferation assay using MC/9 mouse mast cells. The ED50 range $\leq 5$ ng/ml.  |

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|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 95% by SDS-PAGE   |
| <b>Storage Buffer</b> | Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol   |
| <b>Storage</b>        | Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles. |
| <b>Concentration</b>  | 0.5mg/ml (determined by Bradford assay)   |
| <b>Molecular Mass</b> | 19.4 kDa  |

## GENE INFORMATION

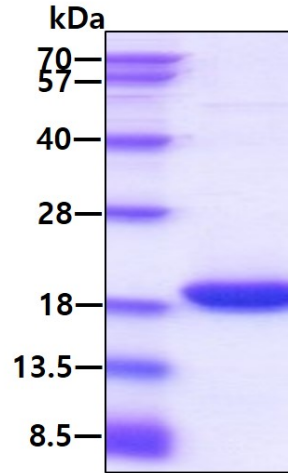
|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | IL10 interleukin 10 [ Homo sapiens (human) ]  |
| <b>Official Symbol</b> | IL10  |
| <b>Synonyms</b>        | Interleukin-10, IL-10, Cytokine synthesis inhibitory factor, CSIF, IL10, GVHDS, IL10A, TGIF |
| <b>Gene ID</b>         | 3586  |
| <b>mRNA Refseq</b>     | NM_000572.3   |
| <b>Protein Refseq</b>  | NP_000563   |
| <b>UniProt ID</b>      | P22301  |
| <b>MIM</b>             | 124092  |

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**SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

**Biological Activity**

Human IL-10 stimulates cell proliferation of the MC/9 mouse mast cells. The ED50 range  $\leq 5$  ng/ml.

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