

## ARG70032 Human IL10 recombinant protein (Active) (His-tagged, C-ter)

Package: 100 µg, 20 µg  
Store at: -20°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | E. coli expressed, His-tagged (C-ter) Active Human IL10 recombinant protein   |
| Tested Application  | SDS-PAGE  |
| Target Name         | IL10  |
| Species             | Human   |
| A.A. Sequence       | Ser19 - Asn178  |
| Expression System   | E. coli   |
| Activity            | Active  |
| Activity Note       | Determined by its ability to induce MC/9 $\beta$ 2 cells proliferation. The ED50 for this effect is less than 1 ng/mL. The specific activity of recombinant human IL-10 is approximately > 1 x10 <sup>6</sup> IU/ mg. |
| Alternate Names     | IL10A; GVHDS; TGIF; IL-10; Cytokine synthesis inhibitory factor; CSIF; Interleukin-10   |

### Properties

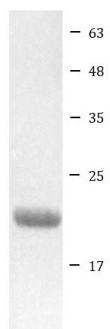
|                     |   |
|---------------------|---|
| Form                | Powder  |
| Purification Note   | Endotoxin level is 98% (by SDS-PAGE)  |
| Buffer              | PBS (pH 8.0)  |
| Reconstitution      | It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.                                     |
| Storage instruction | For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.  |

### Bioinformation

|                |  |
|----------------|--|
| Gene Symbol    | IL10   |
| Gene Full Name | interleukin 10   |
| Background     | 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.[provided by RefSeq, May 2011] |
| Function       | Inhibits the synthesis of a number of cytokines, including IFN-gamma, IL-2, IL-3, TNF and GM-CSF produced by activated macrophages and by helper T-cells. [UniProt]  |

## Images

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Human IL10 recombinant protein

ARG70032 Human IL10 recombinant protein (Active) (His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70032 Human IL10 recombinant protein (Active) (His-tagged, C-ter).