

## Datasheet

# Interleukin 10

## Human Recombinant

Product	Description	Catalogue-No.	Size
IL-10	Interleukin 10, human recombinant	CB-2131000 CB-2131001	2 µg 10 µg

### Product description

Synonyms: B-TCGF, CSIF, TGIF, IL-10, IL10A, MGC126450, MGC126451, Cytokine synthesis inhibitory factor.

IL-10 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 is able to 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 IL-10 as an essential immunoregulator in the intestinal tract.

IL-10 human rec. produced in E. coli is a single non-glycosylated polypeptide chain containing 161 amino acids each and having a molecular mass of 18.6kDa.

IL-10 is purified by proprietary chromatographic techniques.

### Solubility and storage conditions

It is recommended to reconstitute the lyophilized IL-10 in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Lyophilized Interleukin-10 although stable at room temperature for 3 weeks, should be stored desiccated below -20°C. Upon reconstitution IL-10 should be stored at 2-8°C between 2-7 days and for future use below -20°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Composition

Lyophilized from PBS, pH 7.4.

Purity: > 97.0% as determined by SDS-PAGE and RP-HPLC

Amino acid sequence: MSPGQGTQSE NSCTHFPGNL PNMLRDLRDA FSRVKTFQMQ  
KDQLDNLLK ESLLDFKGY LGCQALSEMI QFYLEEVMQ AENQDPDIKA HVNSLGENLK  
TLRLRLRRCH RFLPCENKSK AVEQVKNAFN KLQEKGIYKA MSEFDIFINY IEAYMTMKIR N.

Biological activity: The ED<sub>50</sub> as determined by the dose-dependent co-stimulation (with murine IL-4) of MC/9 cells was found to be less than 2.0ng/ml, corresponding to a specific activity of 5.0×10<sup>5</sup> Units per mg.

### Technical support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email ([info@pan-biotech.com](mailto:info@pan-biotech.com)) or phone +49-8543-601630.

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