



rHuIL-10

recombinant Human Interleukin-10

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Product	Cat#	Package size
rHuIL-10	C6077.0002	2µg
rHuIL-10	C6077.0010	10µg
rHuIL-10	C6077.1000	1mg

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

Introduction:

IL10 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 co-stimulatory 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.

Product description

Recombinant human Interleukin-10 produced in E.coli is a single non-glycosylated polypeptide chains of 161 amino acids and a molecular mass of 18606.29 Dalton.

Purity: Greater than 97.0%, determined by:
RP-HPLC chromatography
SDS-PAGE (silver stained)

Source: *E. Coli*

Amino acid sequence

MSPGQGTQSE NSCTHFPGNL PNMLRDLRDA FSRVKTFFQM KDQLDNLLK ESLLEDFKGY LGCQALSEMI QFYLEEVMPQ
AENQDPDIKA HVNSLGENLK TLRLRLRRCH RFLPCENKSK AVEQVKNAFN KLQEKGIIYKA MSEFDIFINY IEAYMTMKIR N.

Biological Activity: The ED₅₀ 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 5.0×10⁵ IU/mg.

Solubility: It is recommended to reconstitute the lyophilized Interleukin-10 in sterile 18MΩ-cm H2O not less than 100µg/mL, which can then be further diluted to other aqueous solutions.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder. The protein was lyophilized from a concentrated (1mg/mL) solution in PBS, pH7.4..

Stability

Lyophilized IL-10 although stable at room temperature for 3 weeks, should be stored below -18°C. Upon reconstitution IL-10 Human should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent from repeated freeze-thaw cycles.

Usage

The Genaxxon bioscience IL-10 is offered for research, laboratory or further manufacturing purposes only. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.

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