
Product Data Sheet

Product Name: IL 10 Human
 Cat. No.: GP20540
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	B-TCGF; CSIF; TGIF; IL-10; IL10A; MGC126450; MGC126451; Cytokine synthesis inhibitory factor.		
Amino Acid Sequence	MSPGQGTQSE NSCTHFPGNL PNMLRDLRDA FSRVKTFQK KDQLDNLLK ESLLDFKGY LGCQALSEMI QFYLEEVMPQ AENQDPDIKA HVNSLGENLK TLRRLRRCH RFLPCENKSK AVEQVKNAFN KLQEKGIYKA MSEFDIFINY IEAYMTMKIR N.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin-10 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Interleukin-10 His is supplied in 20mM Tris-HCl pH-8 and 20% glycerol.		

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 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.

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 5.06[±]10⁵ IU/mg.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

Background

Interleukin-10 Human Recombinant produced in E.coli is a single non-glycosylated polypeptide chains containing 161 amino acids each and having a molecular mass of 18.6kDa. The IL-10 is purified by proprietary chromatographic techniques.

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