
Product Data Sheet

Product Name: IL 10 Mouse
Cat. No.: GP20542
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	B-TCGF; CSIF; TGIF; IL-10; IL10A; MGC126450; MGC126451; Cytokine synthesis inhibitory factor.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ser-Arg-Gly-Gln.		
Solubility	It is recommended to reconstitute the lyophilized IL-10 Mouse Recombinant in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized after extensive dialysis against PBS.		

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-dependant co-stimulation with IL-4 of mouse MC-9 cells was found to be < 2ng/ml, corresponding to a Specific Activity of 500,000IU/mg.

Stability

Lyophilized IL-10 Mouse although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Interleukin10 Mouse recombinant

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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 freeze-thaw cycles.

Background

IL-10 Recombinant Mouse produced in E.coli is a single, non-glycosylated polypeptide chain containing 161 amino acids and having a molecular mass of 18785 Dalton. The Interleukin-10 Mouse is purified by proprietary chromatographic techniques.

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