
Product Data Sheet

Product Name: IL 10 Rat
 Cat. No.: GP20543
 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	SKGHSIRGDN NCTHFPVSQT HMLRELRAAF SQVKTFQKK DQLDNILLTD SLLQDFKGYL GCQALSEMIK FYLVEVMPQA ENHGPEIKEH LNSLGEKLLT LWIQLRRCHR FLPCENKSKA VEQVKNDFNK LQDKGVYKAM NEFDIFINCI EAYVTLKMKN.		
Solubility	It is recommended to reconstitute the lyophilized IL-10 Rat Recombinant in sterile 18MΩ-cm H ₂ O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized containing 20mM Tris-HCl pH-8.0 and 100mM NaCl.		

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 inhibition of MC/9 proliferation is less than 10ng/ml concentration corresponding to a Specific Activity of 100,000IU/mg.

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

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Stability

Lyophilized IL-10 Rat although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Interleukin10 Rat recombinant 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 Rat produced in E.coli is a single, glycosylated polypeptide chain containing 160 amino acids and having a molecular mass of 18.6 kDa. The Interleukin-10 Mouse is purified by proprietary chromatographic techniques.

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