9051 Mira Mesa Blvd, #910094
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IL 10 Rat

Interleukin-10 Rat Recombinant
CYK0239

Product Overview

Name	IL 10 Rat
Description	
Interleukin-10 Rat Recombinant	
Accession (Primary)	P29456
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 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized containing 20mM Tris-HCl pH-8.0 and 100mM NaCl.	
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.	
Purity	
Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
SKGHSIRGDN NCTHFPVSQT HMLRELRAAF SQVKTFFQKK DQLDNILLTD SLLQDFKGYL GCQALSEMIK	

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FYLVEVMPQA ENHGPEIKEH LNSLGEKLKT LWIQLRRCHR FLPCENKSKA VEQVKNDFNK LQDKGVYKAM NEFDIFINCI EAYVTLKMKN.

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.

Solubility

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

Precautions

IL 10 Rat is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P29456)