



Product Datasheet

Product Name	Interleukin-10 Rat Recombinant
Cata No	CB500367
Source	<i>Escherichia Coli.</i>
Synonyms	B-TCGF, CSIF, TGIF, IL-10, IL10A, MGC126450, MGC126451, Cytokine synthesis inhibitory factor.

Description

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.

IL-10 Recombinant Rat produced in E.coli is a single, glycosylated polypeptide chain containing 160 amino acids and having a molecular mass of 18.7 kDa.

The Interleukin-10 Mouse is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

The ED₅₀ as determined by the dose dependent inhibition of MC/9 proliferation is less than 10 ng/ml.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

The protein was lyophilized containing 25mM sodium phosphate buffer pH-7.25 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.

Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ser-Lys-Gly-His.

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