

## 32-1434: mL 10 Recombinant Protein

**Alternative Name :** B-TCGF,CSIF,TGIF,IL-10,IL10A,MGC126450,MGC126451,Cytokine synthesis inhibitory factor.

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	The protein was lyophilized after extensive dialysis against PBS.
<b>Storage condition :</b>	Lyophilized IL-10 Mouse although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Interleukin10 Mouse 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.
<b>Amino Acid :</b>	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ser-Arg-Gly-Gln.

### Application Note

It is recommended to reconstitute the lyophilized IL-10 Mouse Recombinant in sterile 18M $\Omega$ -cm H<sub>2</sub>O not less than 100 $\Omega$ µg/ml, which can then be further diluted to other aqueous solutions. 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.