

## Recombinant Murine Interleukin-10 (rm IL-10)

Murine **Interleukin-10** 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.

Recombinant murine IL-10 produced in *E.Coli* is a single, glycosylated polypeptide chain containing 161 amino acids and having a molecular mass of 18.7 kDa.

**Synonyms :** B-TCGF, CSIF, TGIF

**Source:** *Escherichia coli*

**AA Sequence:** MSRGQYSRED NNCTHFPVGQ SHMLLELRTA FSQVKTFEQT KDQLDNILLT  
DSLQMDFKGY LGCQALSEMI QFYLVEVMPQ AEKHGPEIKE HLNSLGQKLK  
TLRMRLRRCH RFLPCENKSK AVEQVKSDFN KLEDQGVYKA MNEFDIFINC  
IEAYMMIKMK S

**Formulation:** Lyophilisate from a 0.22 µm filtered carrier free solution in 25 mM TRIS, pH 8.0 + 200 mM NaCl.

**Reconstitution:** Reconstitute in sterile endotoxin free water not less than 100 µg/ml

**Stability:** The lyophilized protein is stable for at least 2 years at -20°C. Reconstituted rm IL-10 is stable for at least 3 months when stored in concentrated working aliquots (100 ng/µl or higher) at -20°C. Avoid repeated freeze/thaw cycles.

**Biological Activity:** Determined by the dose-dependent co-stimulation with IL-4 of mouse MC-9 cells tehED50 is < 2 ng/ml, corresponding to a specific activity of 5x10<sup>5</sup> IU/mg.

**Purity:** 95% (verified by SDS-PAGE / silver stain)

**Endotoxicity:** The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method

**Order N°:** rm IL-10 +Size  
available sizes: 2 µg, 10 µg, 50 µg

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