

## Recombinant Equine Interleukin 10 (req IL-10)

**Synonyms:** B-TCGF, TGIF, Cytokine synthesis inhibitory factor, CSIF

**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.

**Description:** Recombinant equine IL-10 produced in *E.Coli* is a single, glycosylated polypeptide chain containing 161 amino acids and having a molecular mass of 18747 Dalton. The req IL-10 is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*.

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation:** Lyophilised from a 0.22 µm filtered carrier free solution in 25 mM sodium phosphate pH 7.0 containing 0.2 M NaCl

**Solubility:** It is recommended to reconstitute the lyophilized req IL-10 in sterile H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized req IL-10 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution req IL-10 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 98.0% as determined by SDS-PAGE and Silver Staining.

**Amino acid sequence:** The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ser-Arg-Asp-Arg

**Biological Activity:** The ED50 as determined by the dose-dependent co-stimulation with IL-4 of mouse MC-9 cells was found to be 0,09 ng/ml.

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

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	18340102
<i>medium</i>	10 µg	Cat.N°	18340103
<i>large</i>	50 µg	Cat.N°	18340105
<i>x-large</i>	250 µg	Cat.N°	18340107

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