

## 32-190045: IL-10 (human):Fc (human) (Recombinant) (non-lytic)

**Application :** Functional Assay  
**Reactivity :** Human  
**Alternative Name :** Interleukin-10; Cytokine Sythesis Inhibitory Factor; CSIF

### Description

Source :CHO cells

Specific Interleukin-10 (IL-10) is a cytokine produced by activated Th2 cells, B cells, keratinocytes and monocytes/macrophages. In vitro murine and human IL-10 inhibits cytokine synthesis by Th1 cells, natural killer cells and monocytes/macrophages. Several studies have suggest the potential application of IL-10 as an anti-inflammatory agent in the treatment of septic shock and as an immunosuppressive agent in certain T cell mediated autoimmune diseases. Other Product Data Non-lytic: Acts as a long lasting fusion protein which only binds to the receptor. Mutations to the complement (C1q) and FcγR I binding sites of the IgGs Fc fragment render the fusion proteins incapable of antibody directed cytotoxicity (ADCC) and complement directed cytotoxicity (CDC).

### Product Info

**Amount :** 50 µg / 10 µg  
**Purification :** ≥98% (SDS-PAGE)  
**Content :** Reconstitute 10µg vial in 100µl sterile water. Reconstitute 50µg vial in 50µl sterile water. Add 1X PBS to the desired protein concentration.  
Lyophilized from 0.2µm-filtered solution in PBS.  
**Storage condition :** Short Term Storage +4°C ; Long Term Storage -20°C ; Avoid freeze/thaw cycles. Stable for at least 1 year after receipt when stored at -20°C.  
Working aliquots are stable for up to 3 months when stored at -20°C.  
**Amino Acid :** The extracellular domain of human IL-10 (aa 19-178) is fused to the N-terminus of the Fc region of a mutant human IgG1.

### Application Note

**Biological Activity:** Shows the biological function of the IL-10 moiety and exerts a prolonged circulating half-life caused by the modified Fc domain.

**Endotoxin Content:** <0.06EU/µg protein (LAL test; Lonza).

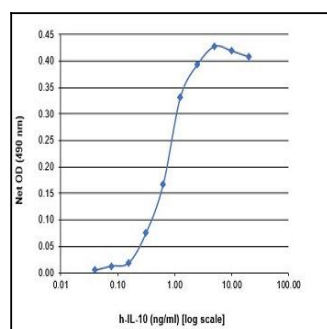


Figure 1: The biological activity of IL-10 (human):Fc (human) (rec.) (non-lytic) (#CHI-HF-22010) has been measured in a cell proliferation assay using MC/9-2 mouse mast cells. The ED50 is 1.1-1.7ng/ml for this human IL-10 using MC/9 cells.