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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 FcgR 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).

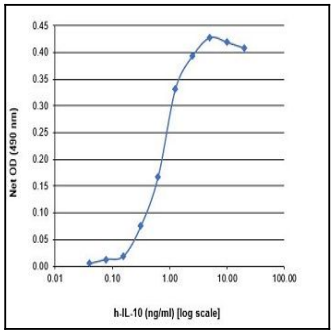


Figure 1: The biological activity of IL-10 (human):Fc (human) (rec.) (non-lytic) (#CHI-HF-22010) has been measured in a cell proliferation assay using MC/9-2 mouse mast cells. The ED50 is 1.1-1.7ng/ml for this human IL-10 using MC/9 cells.

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