

## **Recombinant Human IL10**

Cat No:HR2R1536

For research use only

## Overview

Quantity	1.0 ?g
Gene Symbol	IL10
Gene ID	3586
Accession	P22301
Alternative Name	IL-10, Cytokine synthesis inhibitory factor, CSIF, B-TCGF, TGIF br/>Recombinant Human Interleukin-10 (IL10)
Species	Human
Source	IL-10 is produced by mouse Th2 cells following their stimulation by lectins. The main source for B cell derived IL-10 in mice are Ly1 B cells that express CD5 (Ly1) and CD11.In humans IL10 is produced by activated CD8(+) peripheral blood T-cells, by T-helper CD4(+) T cell clones after both antigen-specific and polyclonal activation, by B cell lymphomas, and by monocytes following cell activation by bacterial lipopolysaccharides and mast cells. IL-10 is a homodimeric protein with subunits having a length of 160 amino acids. Human Interleukin 10 shows 73% amino acid homology with mouse Interleukin-10. The murine IL-10 receptor has been cloned. This receptor is a protein of approximately 110 kDa that binds murine IL-10 specifically. This receptor is structurally related to receptors for IFN. The CD nomenclature for this receptor is CDw210. IL10 inhibits the synthesis of a number of cytokines such as IFN-gamma, IL-2 and TNF-beta in Th1 T helper subpopulations of T cells but not of Th2 helper cells. This activity is antagonized by IL-4. The inhibitory effect on IFN-gamma production is indirect and appears to be the result of a suppression of IL-12 synthesis by accessory cells. In the human system, IL1-0 is produced by, and down-regulates the function of Th1 and Th2 cells.
Functions	The ED(50) determined by dose-dependent co-stimulation (with murine IL-4) of MC/9 cells. The ED(50) was found to be ? 2.0 ng/mL, corresponding to a specific activity of ? 4.0 x 10^5 units/mg.
Formulation	Recombinant Interleukin-10 was lyophilized from a 0.2 ?m filtered PBS solution pH 7.0.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	19
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature  www.bioelsa.com  info@bioelsa.com

<del>-info@bioelsa.co</del>m

Storage Condition The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

