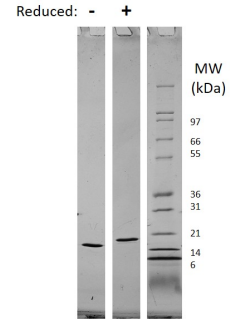
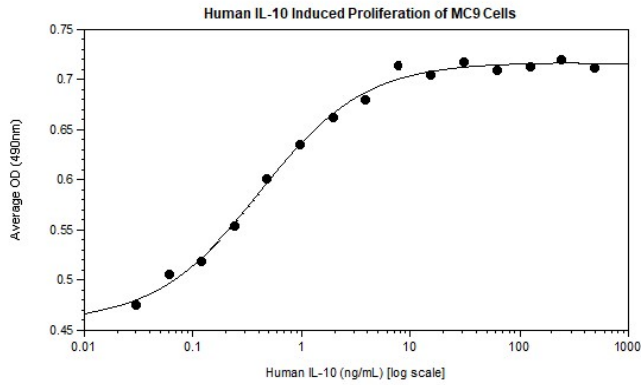


IL10

Recombinant Human Interleukin-10

Catalog No.	CRI153A CRI153B CRI153C	Quantity:	2 µg 10 µg 1 mg
Alternate Names:	CSIF, TGIF, GVHDS, IL-10, IL10A		
Description:	Interleukin-10 (IL-10) is a cytokine produced primarily by macrophages and type 2 T helper (Th2) cells. IL-10 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. The IL-10 dimer binds to two IL10-R-alpha/ IL-10R1 chains, resulting in recruitment of two IL-10 R-beta/ IL-10R2 chains and activation of a signaling cascade involving JAK1, TYK2, and STAT3.		
Gene ID:	3586		
UniProt ID:	P22301		
Source:	<i>E. coli</i>		
Molecular Weight:	Noncovalent homodimer, 18.8 kDa (161 aa)		
Formulation:	Lyophilized from a sterile filtered solution of 10 mM sodium phosphate, pH 7.5		
Purity:	≥ 95% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤ 1 EU/µg, by kinetic LAL		
Biological Activity:	ED ₅₀ ≤ 5 ng/ml, determined by proliferation of mouse MC/9 cells.		
Specific Activity:	≥ 2.0 x 10 ⁵ units/mg, calibrated against recombinant human IL-10 WHO International Standard (NIBSC code: 93/722).		
Amino Acid Sequence:	MSPGQGTQSE NSCTHFPGNL PNMLRDLRDA FSRVKTFFQM KDQLDNLLLK ESLLEDFKGY LGCQALSEMI QFYLEEVMPPQ AENQDPDIKA HVNSLGENLK TLRLRLRRCH RFLPCENKSK AVEQVKNAFN KLQEKGIYKA MSEFDIFINY IEAYMTMKIR N		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipet solution up and down sides of vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Storage & Stability:	Upon receipt, store as supplied at -20 °C to -80 °C for up to one year. Upon reconstitution store at 2-8 °C for up to one month. For long term storage reconstitute in working aliquots containing 0.1% BSA and store at -80 °C. Avoid repeated freeze-thaw cycles.		





Human IL-10 Gel

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human IL-10 is predicted to be a non-covalent homodimer and each has a predicted MW of 18.8 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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