

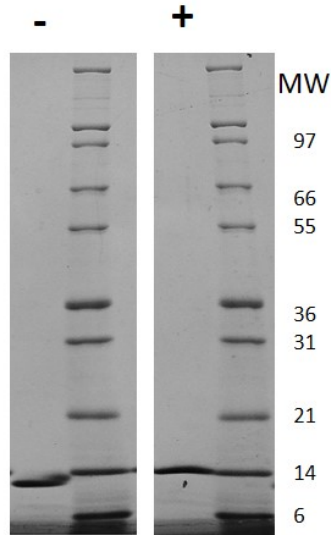
IL4

Recombinant Human Interleukin-4

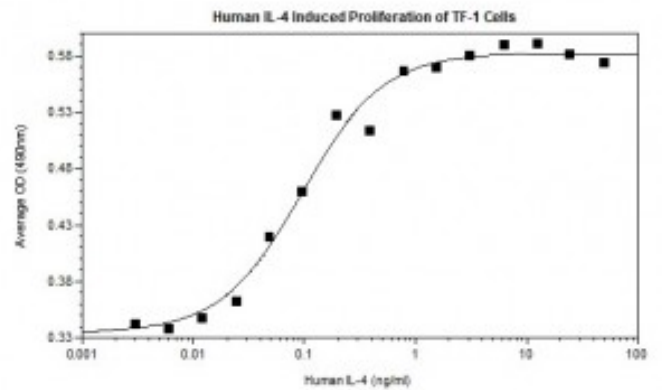
Catalog No.	CRI104A CRI104B CRI104C	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	Interleukin-4, IL-4, B-cell stimulatory factor 1, BSF-1, Lymphocyte stimulatory factor 1		
Description:	Interleukin-4 is a pleiotropic cytokine that regulates diverse T and B cell responses including cell proliferation, survival and gene expression. Produced by mast cells, T cells and bone marrow stromal cells, IL-4 regulates the differentiation of naive CD4+ T cells into helper Th2 cells. Another dominant function of IL-4 is the regulation of immunoglobulin class switching to the IgG1 and IgE isotypes. Excessive IL-4 production by Th2 cells has been associated with elevated IgE production and allergy.		
UniProt ID:	P05112		
Source:	<i>E. coli</i>		
Molecular Weight:	Monomer, 15.1 kDa (130 aa)		
Formulation:	Lyophilized from sterile filtered solution containing 0.1% Trifluoroacetic Acid (TFA).		
Purity:	≥95% by reducing and nonreducing SDS-PAGE		
Endotoxin Level:	≤ 0.1 EU/µg, kinetic LAL		
Biological Activity:	ED ₅₀ ≤ 0.25 ng/ml pg/ml, determined by cell proliferation of human TF-1 cells.		
Specific Activity:	≥4.0 x 10 ⁶ U/mg		
Amino Acid Sequence:	MHKCDITLQE IIKTLNSLTE QKTLCTELTV TDIFAASKNT TEKETFCRAA TVLRQFYSHH EKDTRCLGAT AQQFHRHKQL IRFLKRLDRN LWGLAGLNSC PVKEANQSTL ENFLERLTKI MREKYSKCSS		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL. DO NOT VORTEX. Allow several minutes for complete reconstitution. Further dilution should be made in appropriate buffered solutions.		
Storage & Stability:	Upon receipt, store at -20°C to -80°C for up to 1 year. Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, freeze in working aliquots with 0.1% BSA and store at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		



Figure: 1 μ g in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassir Blue.



Human IL-4 Induced Proliferation of TF-1 Cells



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

