

IL4

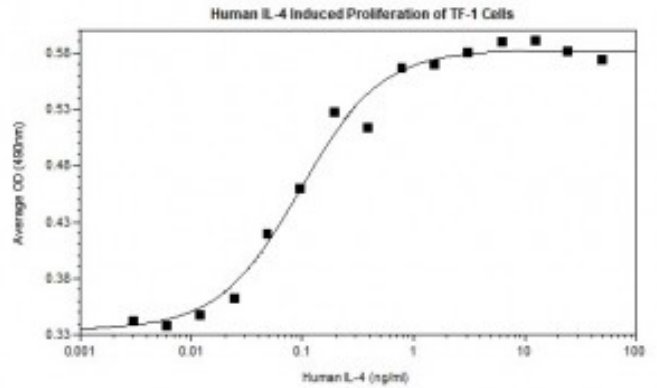
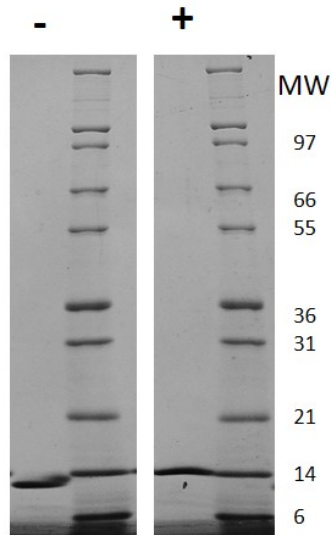
Recombinant Human Interleukin-4 Animal Free

Catalog No.	CRI104A-AF CRI104B-AF CRI104C-AF	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	IL-4, BCGF, BCDF, BSF-1, HCGF, MCGF-2, MFF, TCGF-2		
Description:	<p>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.</p> <p>Made without animal-derived components in an animal-free facility.</p>		
Gene ID:	3565		
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 ≤ 0.250 ng/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 TEKETFCAA TVLRQFYSHH EKDTRCLGAT AQQFHRHKQL IRFLKRLDRN LWGLAGLNSC PVKEANQSTL ENFLERLKI MREKYSKCSS		
Reconstitution:	<p>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 dilutions should be made in appropriate buffered solutions.</p>		
Storage & Stability:	<p>Upon receipt, store at -20°C to -80°C for up to 1 year.</p> <p>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.</p>		



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.



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