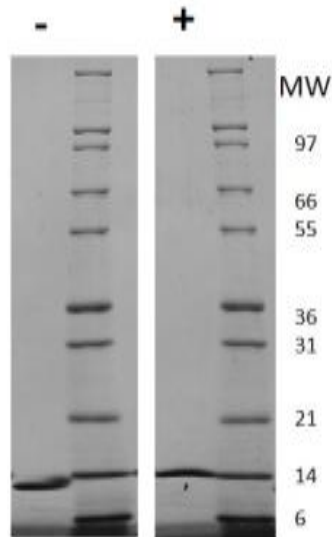


## IL4

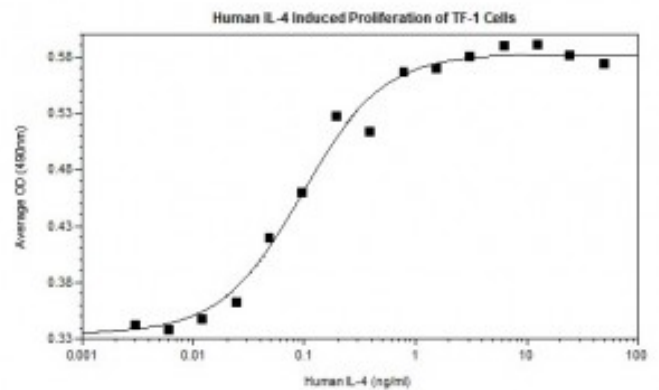
### Recombinant Human Interleukin-4

<b>Catalog No.</b>	CRI104A CRI104B CRI104C	<b>Quantity:</b>	5 µg 20 µg 1.0 mg
<b>Alternate Names:</b>	IL-4, BCGF, BCDF, BSF-1, HCGF, MCGF-2, MFF, TCGF-2		
<b>Description:</b>	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.		
<b>Gene ID:</b>	3565		
<b>UniProt ID:</b>	P05112		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	Monomer, 15.1 kDa (130 aa)		
<b>Formulation:</b>	Lyophilized from sterile filtered solution containing 0.1% Trifluoroacetic Acid (TFA).		
<b>Purity:</b>	≥95% by reducing and nonreducing SDS-PAGE		
<b>Endotoxin Level:</b>	≤1 EU/µg, kinetic LAL		
<b>Biological Activity:</b>	ED <sub>50</sub> ≤ 250 pg/ml, determined by cell proliferation of human TF-1 cells.		
<b>Specific Activity:</b>	≥4.0 x 10 <sup>6</sup> IU/mg, calibrated against rhIL-4 WHO International Standard (NIBSC code: 88/656).		
<b>Amino Acid Sequence:</b>	MHKCDITLQE IIKTLNSLTE QKTLCTELTV TDIFAASKNT TEKETFCAA TVLRQFYSHH EKDTRCLGAT AQQFHRHKQL IRFLKRLDRN LWGLAGLNSC PVKEANQSTL ENFLERLTKI MREKYSKCSS		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water to a concentration of 0.1 mg/mL. <b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution. Further dilution should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	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. <b>Avoid repeated freeze-thaw cycles.</b>		

Figure: 1  $\mu$ 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.



**Cell Sciences®**  
65 Parker Street  
Unit 11  
Newburyport, MA 01950

Toll Free: 888-769-1246  
Phone: 978-572-1070  
Fax: 978-992-0298

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Website: [www.cellsciences.com](http://www.cellsciences.com)