

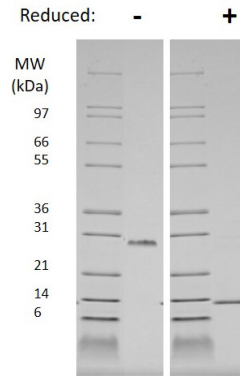
II4

Recombinant Mouse Interleukin-4

Catalog No.	CRI129A CRI129B CRI129C	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	Interleukin-4, BSF-1, IL-4, B cell Stimulating Factor, BCDF, BCGF		
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, characterized by their cytokine-secretion profile that includes secretion of IL-4, IL-5, IL-6, IL-10, and IL-13, which favor a humoral immune response. 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>Recombinant mouse IL-4 is a single, non-glycosylated polypeptide chain containing 121 amino acids.</p>		
Gene ID:	16189		
Protein Accession No:	P07750		
Source:	<i>E. coli</i>		
Molecular Weight:	13.7 kDa		
Formulation:	Lyophilized from a sterile-filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA).		
Purity:	>95% by SDS-PAGE		
Endotoxin Level:	≤1 EU/µg of protein by kinetic LAL analysis		
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ as determined by the dose-dependant proliferation of Mouse HT-2 cells is less than 20 ng/ml.		
Specific Activity:	≥ 5 x 10 ⁴ U/mg		
Amino Acid Sequence:	MHIHGCDKNH LREIIGILNE VTGEGTPCTE MDVPNVLTAT KNTTESELVC RASKVLRIFY LKHGKTPCLK KNSSVLMELQ RLFRAFRCCLD SSISCTMNES KSTSLKDFLE SLKSIMQMDY S		
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 dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store desiccated at -20°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 and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution. 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 Coomassie Blue.



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



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