

II4

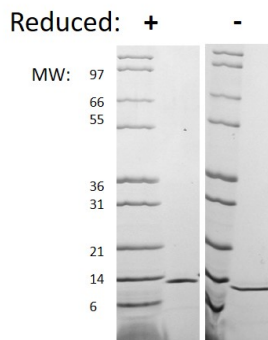
Recombinant Mouse Interleukin-4, Animal Free

Catalog No.	CRI129A-AF CRI129B-AF CRI129C-AF	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	Interleukin-4, BSF-1, IL-4, B cell Stimulating Factor, BCDF, BCGF		
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, 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.		
Gene ID:	16189		
UniProt ID:	P07750		
Source:	<i>E. coli</i>		
Molecular Weight:	13.7 kDa (121 aa)		
Formulation:	Lyophilized from a sterile-filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA).		
Purity:	>95%, by reducing and non-reducing SDS-PAGE.		
Endotoxin Level:	≤1 EU/µg of protein by kinetic LAL analysis		
Biological Activity:	ED ₅₀ ≤ 20 ng/ml, as determined by the dose-dependent proliferation of Mouse HT-2 cells.		
Specific Activity:	≥ 5 x 10 ⁴ IU/mg, calibrated against recombinant mouse IL-4 WHO International Standard (NIBSC code: 91/656).		
Amino Acid Sequence:	MHIHGCDKNH LREIIGILNE VTGEGTPCTE MDVPNVLTAT KNTTESELVC RASKVLRIFY LKHGKTPCLK KNSSVLMELQ RLFRAFRCLD 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:

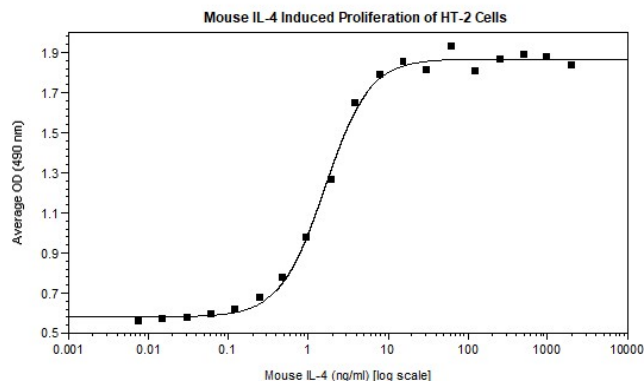
Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store desiccated at -20°C for up to 1 year.

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.**



Mouse IL-4

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse IL-4 has a predicted MW of 13.7 kDa.



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



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