


Mouse IL-4 Protein

Cat #: PRP1137

Size: 5µg/20µg/100µg/1mg

Product Information

	Product Name: Mouse IL-4 Protein		
REF	Catalog Number: PRP1137	LOT	Lot Number: Refer to product label
	Purity: > 98% as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: E.coli
	Shipping: The product is shipped at ambient temperature.		

Background: Interleukin-4 (IL-4) is a pleiotropic cytokine that regulates diverse T and B cell responses including cell proliferation, survival and gene expression. IL-4 is 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 allergic response.

Sequence: Amino acid sequence derived from Mouse IL-4 (His23-Ser140)(P07750) was expressed.

Protein length: The recombinant Mouse IL-4 consists of 121 amino acids and predicts a molecular mass of 13.7 kDa.

Biological Activity: Measure by its ability to induce HT-2 cells proliferation. The ED₅₀ for this effect is <1 ng/mL. The specific activity of recombinant Mouse IL-4 is approximately >1 x 10⁶ IU/mg.

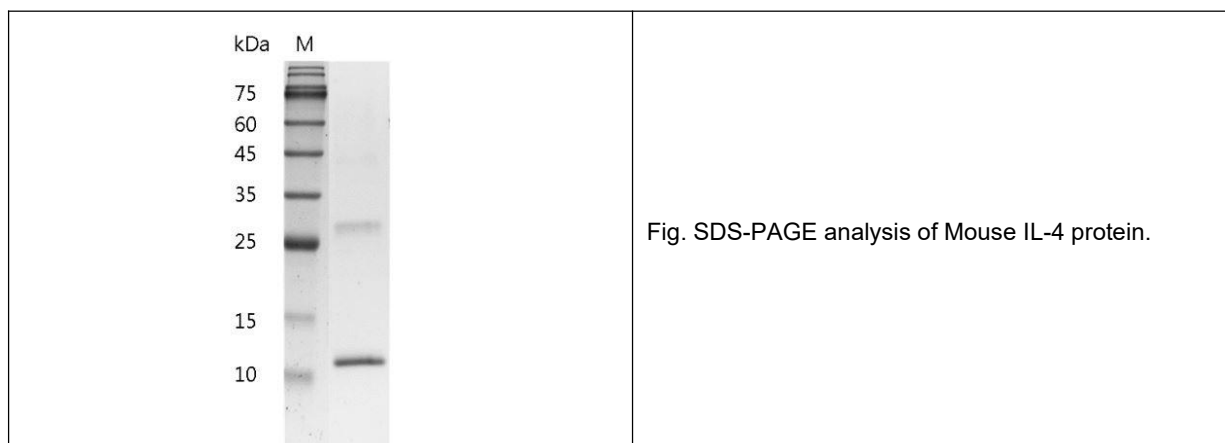
Endotoxin: < 0.1 EU per µg of the protein as determined by the LAL method.

Formulation: The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 7.4.

Storage Instructions: Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA, 10% FBS or 0.1% BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant Mouse IL-4 Protein to a concentration of 0.1-1 mg/mL in sterile ddH₂O, and keep at room temperature for at least 20 min to fully

dissolve. Please avoid vortex vigorously.



Note: The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.