


Mouse IL-4 Protein, His tag (Animal-Free)

Cat #: PRP1137

Size: 5µg/20µg/100µg/1mg

Product Information

	Product Name: Mouse IL-4 Protein, His tag (Animal-Free)		
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 with 6×His tag at the C-terminus.

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.

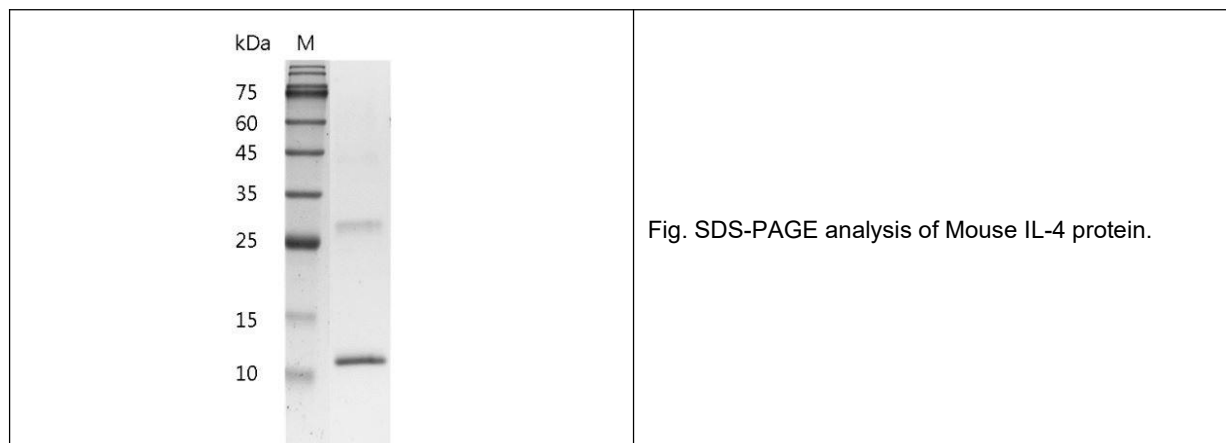
Endotoxin: < 0.1 EU per µg of the protein as determined by the LAL method.

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.



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