


Mouse IL-15 Protein, His tag (Animal-Free)

Cat #: PRP1144

Size: 5 ug/20 ug/100 ug/1 mg

Product Information

	Product Name: Mouse IL-15 Protein , His tag (Animal-Free)		
REF	Catalog Number: PRP1144	LOT	Lot Number: Refer to product label
	Purity: > 98 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: <i>E.coli</i>
	Shipping: The product is shipped at ambient temperature.		

Background: IL-15 was discovered in the supernatant of Simian kidney epithelial cell line CV-1/EBNA, as a soluble factor capable of supporting proliferation of the IL-2-dependent cell line, CTLL-2. IL-15 is a regulatory cytokine, and it is produced by dendritic cells, epithelial cells, fibroblasts, and monocytes. IL-15 plays an important role in immune response and shares many functions with IL-2. For example, it stimulates the proliferation of activated T cells, NK cells, and B cells, and induces immunoglobulin synthesis by B cells stimulated by anti-IgM or CD40 ligand. In addition, IL-15 promotes the development of dendritic cells and induces the production of proinflammatory cytokines from macrophages. IL-15 acts as a bridge between innate and adaptive immunity because of its diverse roles in the immune system.

Sequence: Amino acid sequence derived from Mouse IL-15 Protein (Asn49Ser162)(P48346) was expressed with 6xHis tag at the N-terminus .

Protein length: The protein has a calculated MW of 14.2 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).

Biological Activity: Measure by its ability to induce CTLL-2 cells proliferation. The ED₅₀ for this effect is <10 ng/mL. The specific activity of recombinant mouse IL-15 is approximately >1x 10⁵ IU/mg.

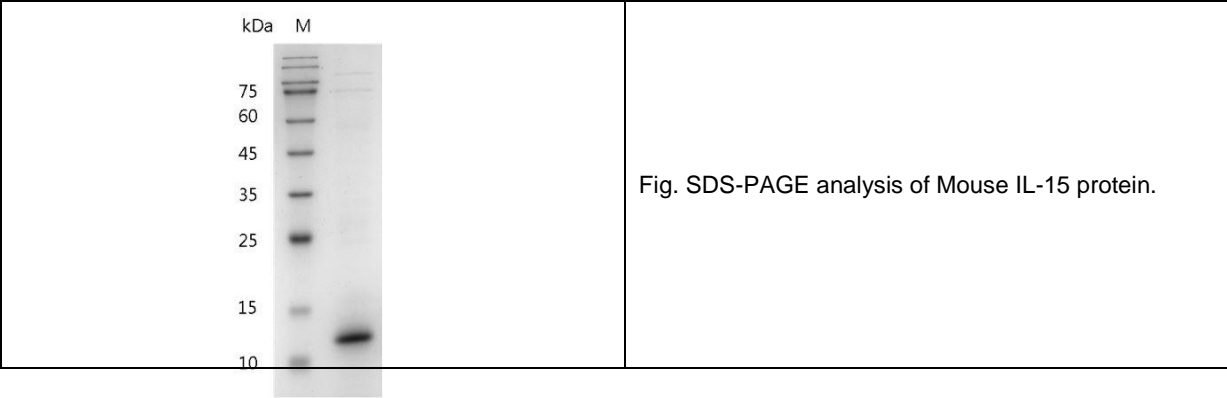
Endotoxin: <0.1 EU per 1 µg of the protein by the LAL method.

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-15 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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