


Mouse IL-21 Protein, His tag (Animal-Free)

Cat #: PRP1163

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Mouse IL-21 Protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1163	LOT	Lot Number: Refer to product label
	Purity: > 95 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: E.coli
	Shipping: The product is shipped at ambient temperature.		

Background: Interleukin-21 (IL-21) belongs to the IL-15/IL-21 family, which exerts pleiotropic immune regulations. IL-21 produced primarily by natural killer T (NKT) cells, T follicular helper (TFH) cells and TH17 cells. As a pleiotropic cytokine, IL-21 has been shown to regulate both innate and humoral immunity. It has potent inhibitory activity towards the activation and maturation of granulocyte-macrophage colony-stimulating factor (GM-CSF)-induced dendritic cells (DCs). In B cells, IL-21 has a major role in the development of immunoglobulin responses. In T cells, it is required to facilitate the functional differentiation of several CD4+ T cell subsets. In addition, the ability of IL-21 to enhance the cytotoxic activity of both CD8+ T cells and NK cells makes it as a potential antitumor agent.

Sequence: Amino acid sequence derived from Mouse IL-21 (His18-Ser146) (Q9ES17) was expressed with 6×His tag at the C-terminus.

Protein length: The recombinant Mouse IL-21 Protein consists of 129 amino acids and predicts a molecular mass of 15.9 kDa.

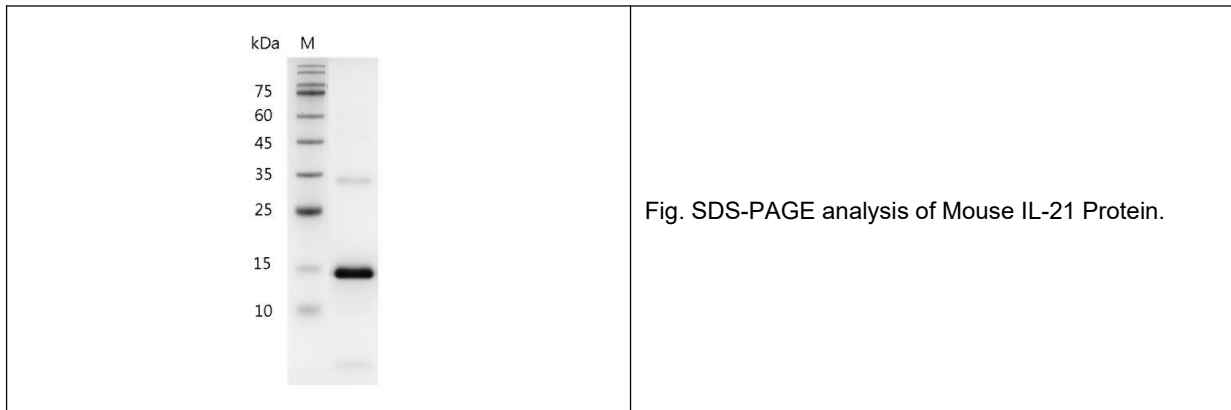
Biological Activity: Measured by its ability to enhance IFN gamma secretion in NK-92 cells. The ED₅₀ for this effect is <6 ng/mL.

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

Formulation: Lyophilized from sterile 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 protein to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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