


Mouse IL-7 Protein, His tag (Animal-Free)

Cat #: PRP1164

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Mouse IL-7 Protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1164	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-7 (IL-7) is encoded by the IL7 gene in mouse and secreted by stromal cells in the red marrow and thymus. The protein signals through the IL-7 receptor, which is a heterodimer consisting of IL-7 receptor alpha and IL-2 receptor gamma chain. IL-7 stimulates the differentiation of hematopoietic stem cells into lymphoid progenitor cells and it can stimulate proliferation of B cells, T cells and NK cells. Murine IL-7 has approximately 65% and 88% amino acid sequence identity with human and rat IL-7 and both proteins exhibit cross-species activity. IL-7 as an immunotherapy agent has been examined in many human clinical trials for various malignancies and during HIV infection.

Sequence: Amino acid sequence derived from Mouse IL-7 (Met 26-Asn 154) (P10168) was expressed with 6×His tag and a Met at the C-terminus.

Protein length: The recombinant Mouse IL-7 Protein consists of 129 amino acids and predicts a molecular mass of 15.8 kDa.

Biological Activity: Measured in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBMC). The ED₅₀ for this effect is <0.2 ng/mL.

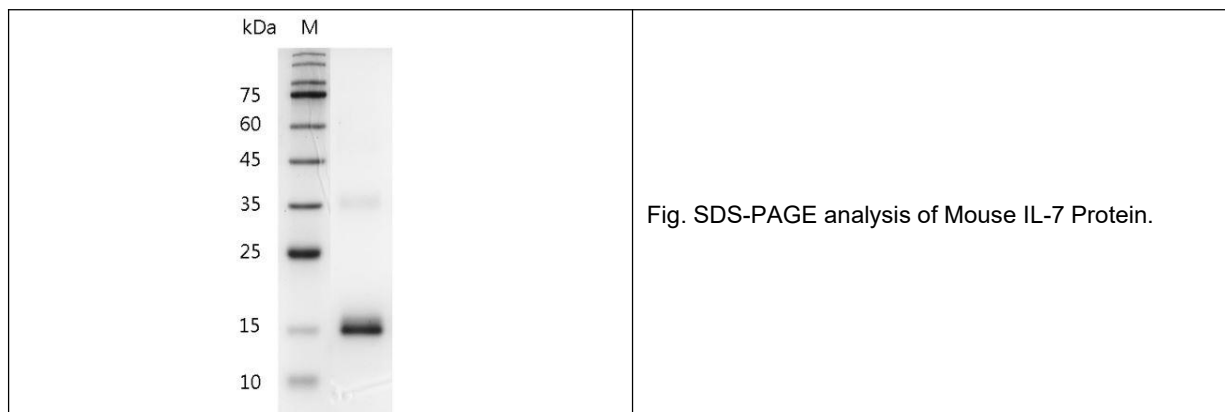
Endotoxin: <0.1 EU per µg of the protein by the LAL method.

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.



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.