


Mouse IL-6 protein, His tag (Animal-Free)

Cat #: PRP2112

Size: 5 µg/20 µg/100 µg

Product Information

	Product Name: Mouse IL-6 protein, His tag (Animal-Free)		
REF	Catalog Number: PRP2112	LOT	Lot Number: Refer to product label
	Purity: >98% as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: HEK 293 Cells
	Shipping: The product is shipped at ambient temperature.		

Background: IL6 is a potent inducer of the acute phase response. Rapid production of IL6 contributes to host defense during infection and tissue injury, but excessive IL6 synthesis is involved in disease pathology. In the innate immune response, is synthesized by myeloid cells, such as macrophages and dendritic cells, upon recognition of pathogens through toll-like receptors (TLRs) at the site of infection or tissue injury. In the adaptive immune response, is required for the differentiation of B-cells into immunoglobulin-secreting cells (Probable). Plays a major role in the differentiation of CD4⁺ T cell subsets. Essential factor for the development of T follicular helper (Tfh) cells that are required for the induction of germinal-center formation. Together with IL21, controls the early generation of Tfh cells and are critical for an effective antibody response to acute viral infection. Required to drive naive CD4⁺ T cells to the Th17 lineage, through 'cluster signaling' by dendritic cells. Also required for proliferation of myeloma cells and the survival of plasmablast cells.

Sequence: Amino acid sequence derived from mouse IL-6 (P08505) (Met 1-Thr211) was expressed with a 6His tag at the C-terminus.

Protein length: The recombinant mouse IL-6 consists of 193 amino acids and predicts a molecular mass of 21.9 kD. The apparent molecular mass of the mouse IL-6 is approximately 25 kD in SDS-PAGE under reducing conditions due to glycosylation.

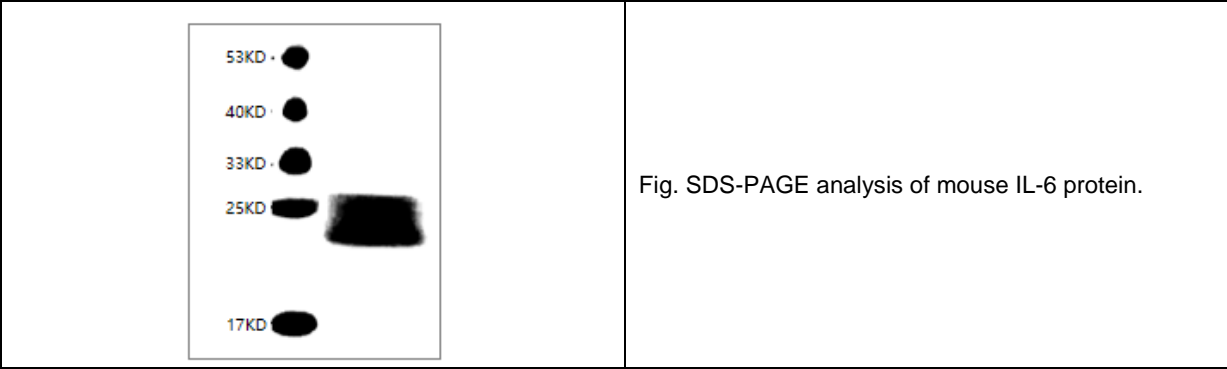
Endotoxin: <1.0 EU per µg of the protein as determined by the LAL method.

Formulation: Lyophilized from sterile PBS, pH 7.4.

Storage Instructions: Lyophilized mouse IL-6 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 (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized mouse IL-6 protein using the buffer we provided not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.



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