

Mouse IL-2 protein

Cat #:PRP1129

Size: 20 µg/100 µg/500 µg

Product Information

	Product Name: Mouse IL-2 protein		
REF	Catalog Number: PRP1129	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-2 (IL-2), also known as T cell growth factor, is a member of the cytokine family, including IL-4, IL-7, IL-9, IL-15, and IL-21. Each member of this family has a bundle of four α spirals. IL-2 signals through IL-2 receptors, which are complexes of dendritic subunits called α , β , and γ . γ IL-2R is common to the cytokine receptors of all members of the cytokine family. Mature IL2 mice share 56% and 73% of aa sequence identity with human and rat IL-2, respectively. Produced by CD4 $^{+}$ T cells, CD8 $^{+}$ T cells, γ δ T cells, B cells, dendritic cells, and eosinophils, IL-2 plays a vital role in key immune system function, tolerance, and immunity, primarily due to its potent stimulating activity against T cells. Therefore, IL-2 may be a key cytokine that naturally suppresses autoimmunity.

Protein length: The recombinant Mouse IL-2 (NP_032392.1) (Ala21-Gln169) consists of 149 amino acids and has a predicted molecular mass of 17 kDa.

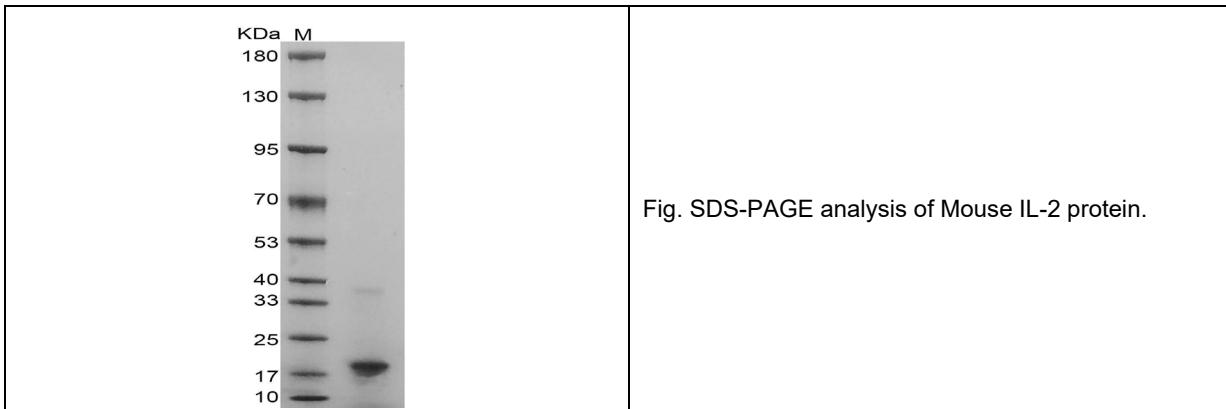
Biological Activity: Measured by its ability to induce proliferation in CTLL-2 cells. The ED₅₀ for this effect is 0.05 ng/mL.

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

Formulation: Lyophilized from sterile 20mM Tris, 150mM NaCl, pH 8.0.

Storage Instructions: Lyophilized Mouse IL-2 protein product should be stored desiccated below -20°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -20°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-2 protein using the buffer we provided not less than 100µg/ml, which can then be further diluted to other aqueous solutions.



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