


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.

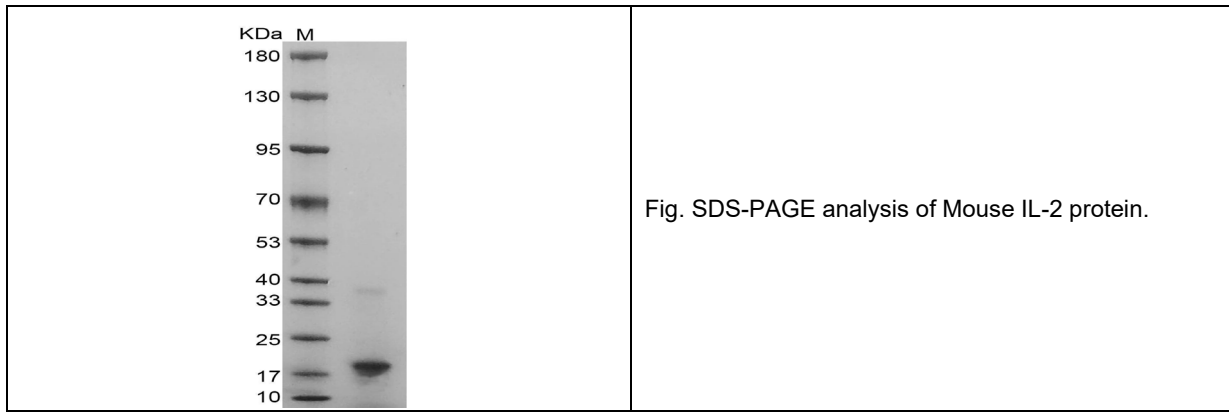
Biological Activity: Measured by its ability to induce proliferation in CTLL-2 cells. The ED₅₀ for this effect is 0.05 ng/mL.

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.



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.