


## Mouse IL-11 Protein, His tag (Animal-Free)

Cat #: PRP1165

Size: 5 µg/20 µg/100 µg/1 mg

### Product Information

	<b>Product Name:</b> Mouse IL-11 Protein, His tag (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP1165	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 98 % as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> E.coli
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** IL-11 is a pleiotropic cytokine in the IL-6 family, which also includes LIF, CNTF, Oncostatin M, Cardiotrophin-1, IL-27 and IL-31. IL-11 is also known under the names adipogenesis inhibitory factor (AGIF) and oprelvekin. It is found in the plasma mainly during inflammation, and is considered to be primarily anti-inflammatory. It stimulates hematopoiesis and thrombopoiesis, regulates macrophage differentiation, and confers mucosal protection in the intestine. IL-11 stimulates the growth of certain lymphocytes and, in the murine model, stimulates an increase in the cortical thickness and strength of long bones. As a signaling molecule, IL-11 has a variety of functions associated with its receptor interleukin 11 receptor alpha; such functions include placentation and to some extent of decidualization.

**Sequence:** Amino acid sequence derived from Mouse IL-11 (Met 22-Asn199) (P47873) was expressed with 6×His tag at the N-terminus.

**Protein length:** The recombinant Mouse IL-11 Protein consists of 178 amino acids and predicts a molecular mass of 19.96 kDa.

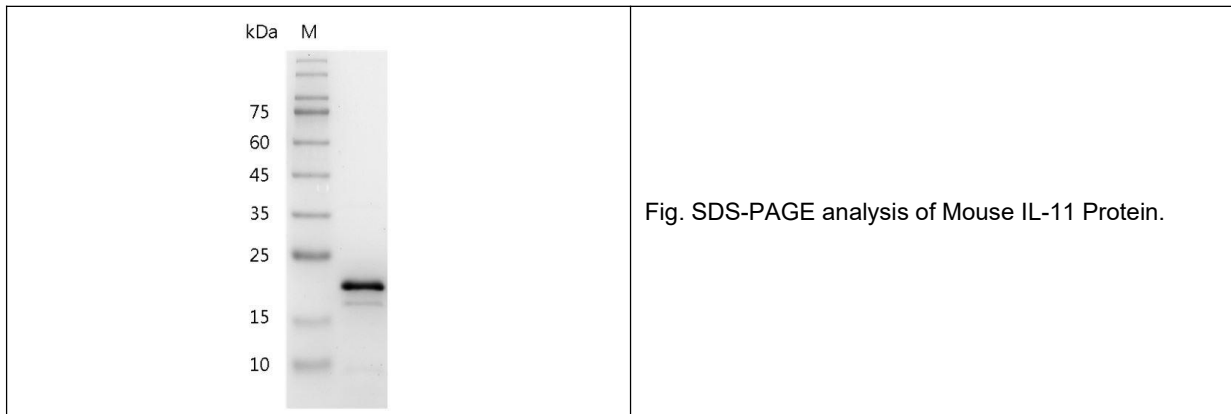
**Biological Activity:** Measured by its ability to induce T11 cells proliferation. The ED50 for this effect is <0.5 ng/mL.

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

**Formulation:** Lyophilized from sterile PBS, pH 8.0.

**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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