


## Mouse IL-5 Protein, His tag (Animal-Free)

Cat #: PRP1170

Size: 5µg/20µg/100µg/1mg

### Product Information

	<b>Product Name:</b> Mouse IL-5 Protein, His tag (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP1170	<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-5, also named B-cell differentiation factor 1, eosinophil differentiation factor and TRF, is belonging to the cytokine family and the IL-5 gene is in close proximity to the genes encoding IL-3, IL-4, and granulocyte-macrophage colony-stimulating factor (GM-CSF), which are often co-expressed in TH2 cells. Through binding to the IL-5 receptor, IL-5 stimulates B cell growth and increases immunoglobulin secretion. It is also a key mediator in eosinophil activation. Interleukin-5 has long been associated with the cause of several allergic diseases including allergic rhinitis and asthma.

**Sequence:** Amino acid sequence derived from Mouse IL-5 (Met 21-Asn 133) (P04401) was expressed with 6×His tag at the C-terminus.

**Protein length:** The recombinant Mouse IL-5 Protein consists of 113 amino acids and predicts a molecular mass of 13.93 kDa.

**Biological Activity:** Measured by its ability to induce TF-1 cells proliferation. The ED<sub>50</sub> 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.

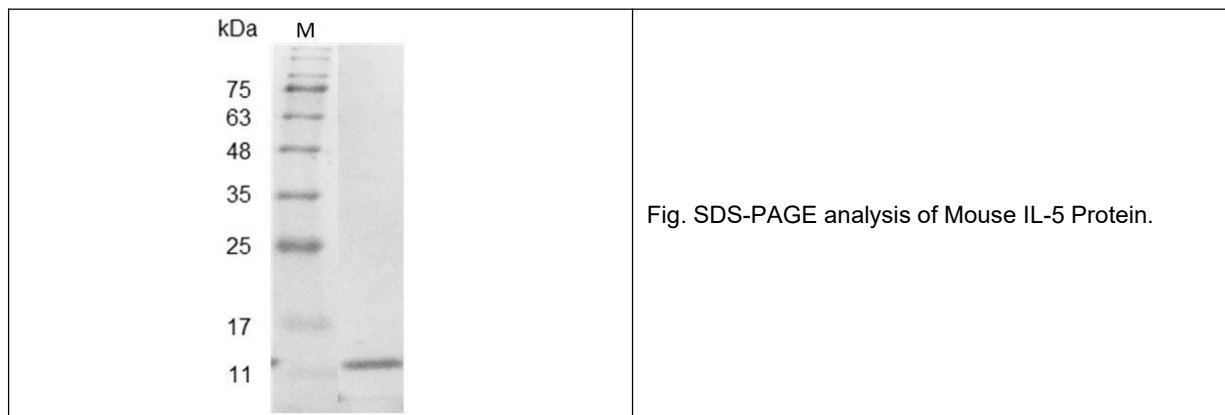


Fig. SDS-PAGE analysis of Mouse IL-5 Protein.

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