


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

Cat #: PRP1930

Size: 5 µg/20 µg/100 µg/1 mg

### Product Information

	<b>Product Name:</b> Human IL-5 Protein, His tag (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP1930	<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:** Interleukin-5 (IL-5) is a secreted glycoprotein that belongs to the alpha -helical group of cytokines . Unlike other family members, it is present as a covalently linked antiparallel dimer.IL-5 is primarily produced by CD4+ Th2 cells, but also by activated eosinophils, mast cells, EBV-transformed B cells, Reed-Sternberg cells in Hodgkin's disease, and IL2 stimulated invariant natural killer T cells (iNKT) . IL-5 increases production and mobilization of eosinophils and CD34+ progenitors from the bone marrow and causes maturation of eosinophil precursors outside the bone marrow.

**Sequence:** Amino acid sequence derived from Human IL-5 (Ile 20-Ser 134) (P05113) was expressed with 6×His tag and a Met at the C-terminus.

**Protein length:** The recombinant Human IL-5 consists of 115 amino acids and predicts a molecular mass of 14.09 kDa.

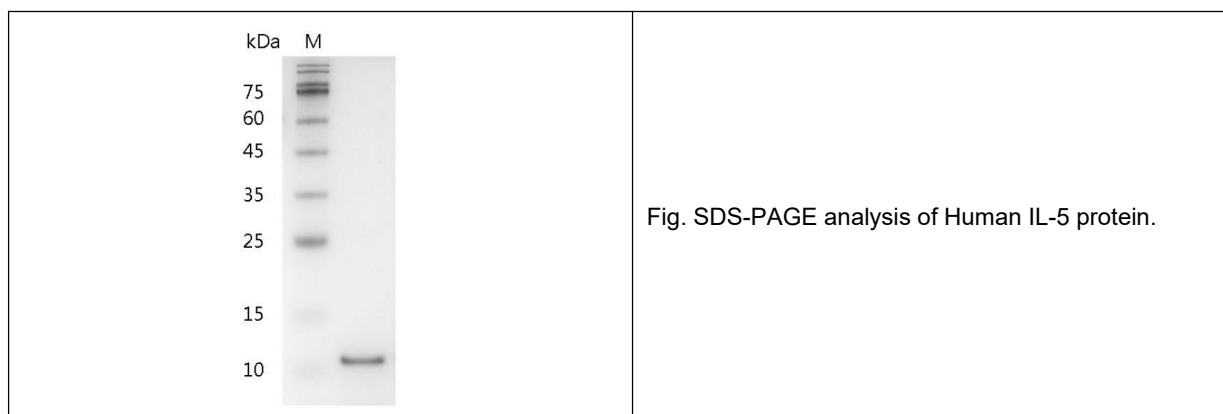
**Biological Activity:** Measured by its ability to induce TF-1 cells proliferation. The ED<sub>50</sub> for this effect is <0.3 ng/mL..

**Endotoxin:** <0.1 EU per 1 µg of the protein by the LAL method.

**Formulation:** Lyophilized from 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.



**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.