


## Human IL-13 protein, His tag (Animal-Free)

Cat #: PRP1051

Size: 5 µg/20 µg/100 µg/1 mg

### Product Information

	<b>Product Name:</b> Human IL-13 protein, His tag (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP1051	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 95 % as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> <i>E.coli</i>
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** Interleukin-13 is also called IL-13. It is a protein encoded by the IL-13 gene in humans. Interleukin-13 is an immunomodulatory cytokine mainly produced by activated Th2 cells. It participates in several stages of B cell maturation and differentiation. It upregulates the expression of CD23 and MHC II, and promotes the transformation of IgE isoforms in B cells. This cytokine down-regulates the activity of macrophages, thus inhibiting the production of proinflammatory cytokines and chemokines.

**Sequence:** Amino acid sequence derived from Human IL-13 (Gly21-Asn132)(P35225) was expressed with 6xHis tag at the C-terminus.

**Protein length:** The secreted Human IL-13 consists of 112 amino acids and has a predicted molecular mass of 13.3 kDa.

**Biological Activity:** Measure by its ability to induce TF-1 cells proliferation. The ED<sub>50</sub> for this effect is <0.8 ng/mL. The specific activity of recombinant Human IL-13 is approximately >1 x10<sup>6</sup> IU/ mg.

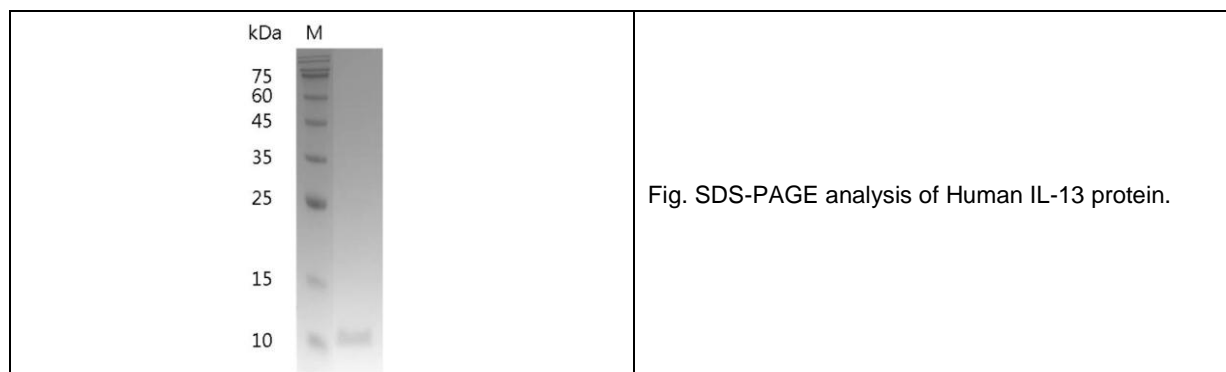
**Endotoxin:** < 0.01 EU per µg of the protein as determined by the LAL method.

**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 Human IL-13 protein to a concentration of 0.1-1 mg/mL in sterile ddH<sub>2</sub>O, 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.