

## Human IL-13 protein, Animal-Free

Cat #: PRP1964      Size: 5 µg/20 µg/100 µg/1 mg

### Product Information

	<b>Product Name:</b> Human IL-13 protein, Animal-Free		
<b>REF</b>	<b>Catalog Number:</b> PRP1964	<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 .

**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 <2.12 ng/mL. The specific activity of recombinant Human IL-13 is approximately >4.72 x10<sup>5</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.

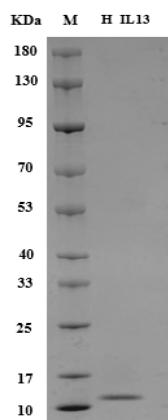


Fig. SDS-PAGE analysis of Human IL-13 protein.

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