

Human IL-13 Protein, Ultra Low Endotoxin



Cat. No. IL1-HM013-UL

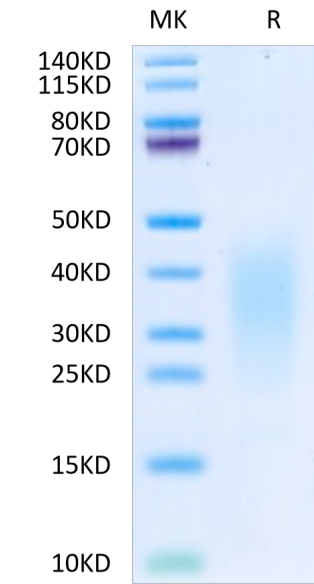
Description	
Source	Recombinant Human IL-13 Protein is expressed from HEK293 without tag. It contains Gly21-Asn132.
Accession	AAK53823
Molecular Weight	The protein has a predicted MW of 12.35 kDa. Due to glycosylation, the protein migrates to 20-45 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
Interleukin-13 (IL-13) is a monomeric 17 kDa immunoregulatory cytokine that plays a key role in the pathogenesis of allergy, cancer, and tissue fibrosis. It is secreted by several helper T cell subsets, NK cells, mast cells, eosinophils, basophils, and visceral smooth muscle cells. Inhibits inflammatory cytokine production. Synergizes with IL2 in regulating interferon-gamma synthesis. May be critical in regulating inflammatory and immune responses. Positively regulates IL31RA expression in macrophages (By similarity).	

Assay Data

Bis-Tris PAGE



Human IL-13 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

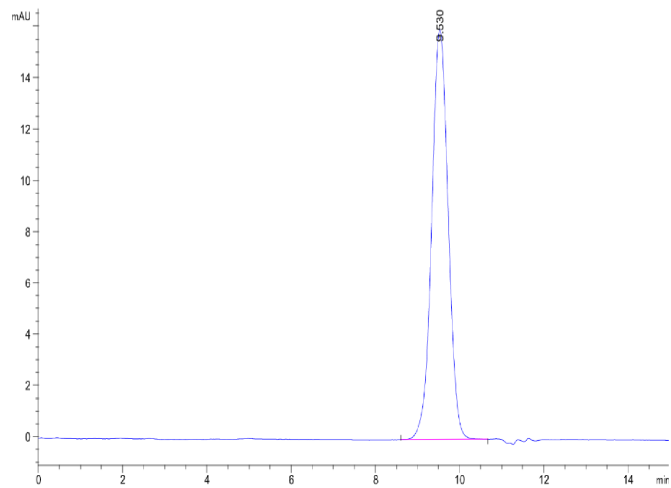
SEC-HPLC

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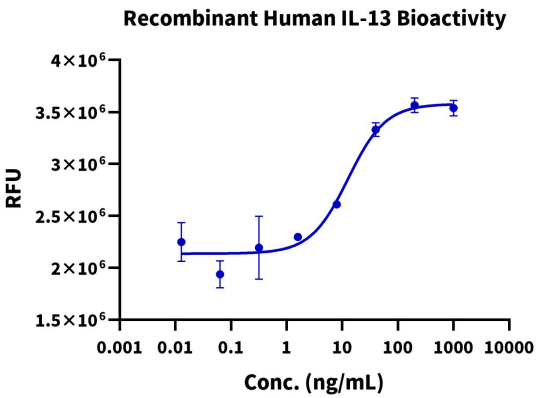


Assay Data



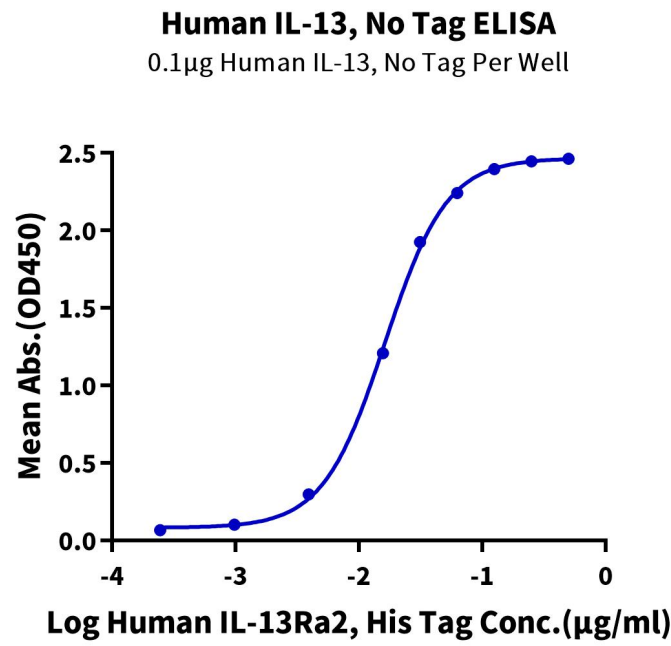
The purity of Human IL-13 is greater than 95% as determined by SEC-HPLC.

Cell Based Assay



Measured in a cell proliferation assay using TF1 human erythroleukemic cells. The ED50 for this effect is typically 5 - 40ng/mL (QC Test).

ELISA Data



Immobilized Human IL-13, No Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human IL-13Ra2, His Tag with the EC50 of 16.2ng/ml determined by ELISA.

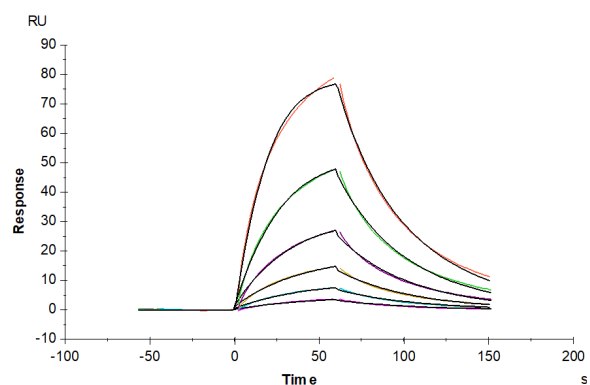
SPR Data

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Assay Data



Human IL-13, No Tag immobilized on CM5 Chip can bind Human IL-13Ra1, His Tag with an affinity constant of 0.55 μM as determined in SPR assay (Biacore T200).