

Cynomolgus IL-13 Protein

Cat. No. IL1-CM113

Description

Source	Recombinant Cynomolgus IL-13 Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Ser19-Asn132.
Accession	Q0PW92
Molecular Weight	The protein has a predicted MW of 13.59 kDa. Due to glycosylation, the protein migrates to 30-45 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU 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	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
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.

Assay Data

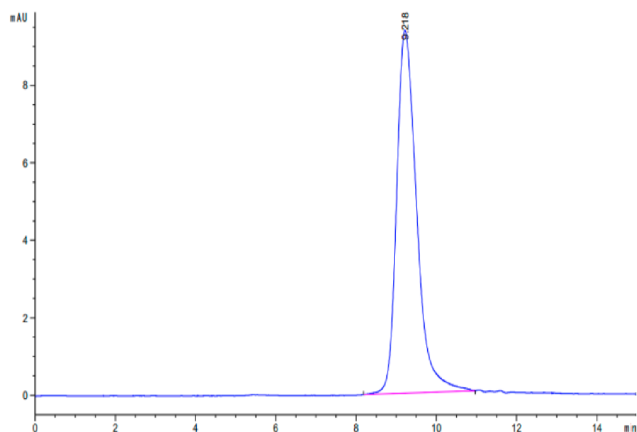
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

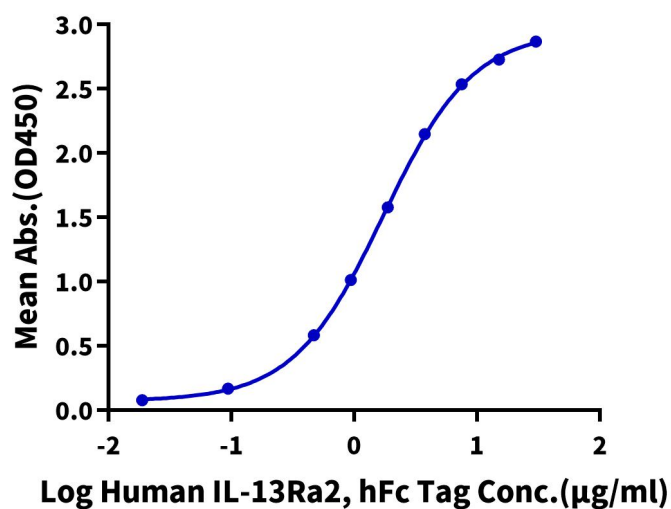


The purity of Cynomolgus IL-13 is greater than 95% as determined by SEC-HPLC.

ELISA Data

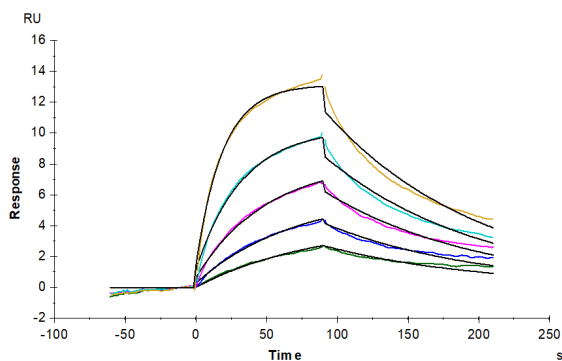
Cynomolgus IL-13, His Tag ELISA

0.5 μ g Cynomolgus IL-13, His Tag Per Well



Immobilized Cynomolgus IL-13, His Tag at 5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Human IL-13Ra2, hFc Tag with the EC₅₀ of 1.72 μ g/ml determined by ELISA (QC Test).

SPR Data



Cynomolgus IL-13Ra1, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-13, His Tag with an affinity constant of 21.16 nM as determined in SPR assay (Biacore T200).