Biotinylated Human IL-13 Protein





Description	
Source	Recombinant Biotinylated Human IL-13 Protein is expressed from HEK293 with His tag and Avi tag at the N-Terminus.
	It contains Gly21-Asn132.
Accession	AAK53823
Molecular Weight	The protein has a predicted MW of 15.3 kDa. Due to glycosylation, the protein migrates to 15 kDa and 35-45 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
- 1.0	

Formulation and Storage

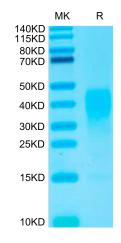
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°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).

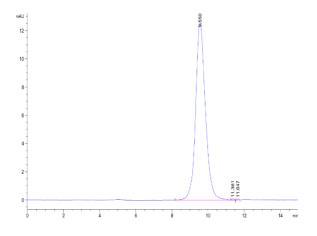
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

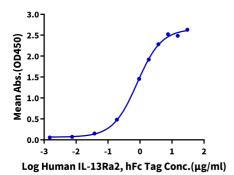
KAGTUS

Assay Data

ELISA Data

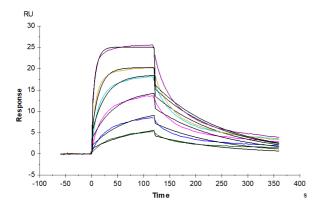
Biotinylated Human IL-13, His-Avi Tag ELISA

0.5µg Biotinylated Human IL-13, His-Avi Tag Per Well



Immobilized Biotinylated Human IL-13, His-Avi Tag at $5\mu g/ml$ ($100\mu l/Well$) on streptavidin ($5\mu g/ml$) precoated plate. Dose response curve for Human IL-13Ra2, hFc Tag with the EC50 of $0.81\mu g/ml$ determined by ELISA (QC Test).

SPR Data



Human IL-13Ra1, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Human IL-13, His Tag with an affinity constant of 25.59 nM as determined in SPR assay (Biacore T200).