Human IL-13Ra1 Protein, Ultra Low Endotoxin

Cat. No. ILR-HM2R1-UL

Description

Source	Recombinant Human IL-13Ra1 Protein is expressed from HEK293 with hFc (IgG1) tag at the C-Terminus.
	It contains Gly22-Thr343.
Accession	P78552
Molecular Weight	The protein has a predicted MW of 63.4 kDa. Due to glycosylation, the protein migrates to 75-110 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

Two type 1 membrane proteins belonging to the hemopoietin receptor family have been cloned and shown to bind IL-13 with differing affinities. The lower affinity IL-13 binding protein, previously designated IL-13 R alpha, IL-13 R alpha ' or NR4, is now referred to as IL-13 R alpha 1. The high-affinity IL-13 binding protein, previously also designated IL-13 R or IL-13 R alpha ', is now referred to as IL-13 R alpha 2.

Assay Data

Bis-Tris PAGE

Human IL-13Ra1 on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.

SEC-HPLC

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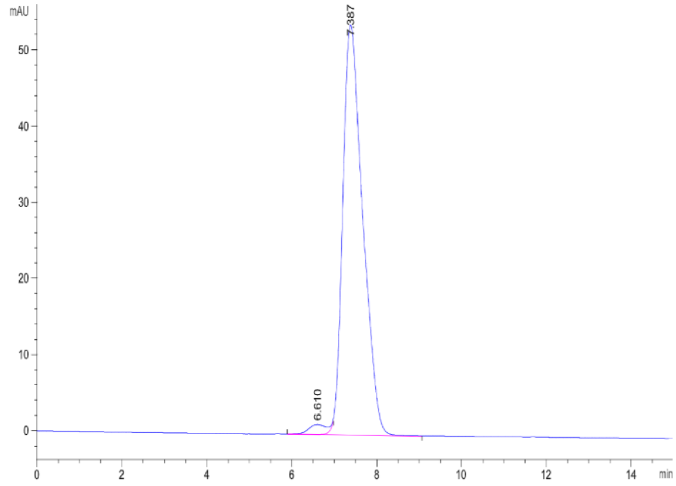
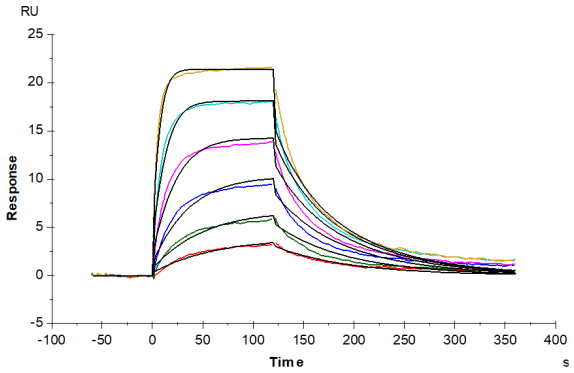
Assay Data



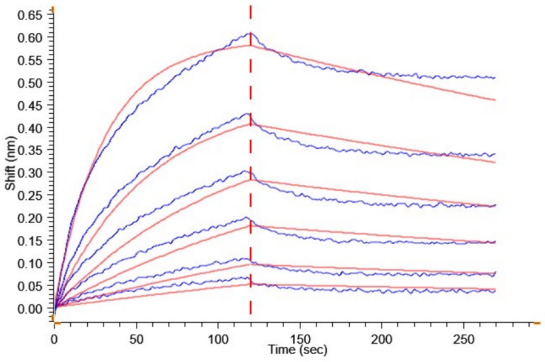
The purity of Human IL-13Ra1 is greater than 95% as determined by SEC-HPLC.

SPR Data



Human IL-13Ra1, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-13, His Tag with an affinity constant of 24.64 nM as determined in SPR assay (Biacore T200).

BLI Data



Loaded Human IL-13, His Tag on Anti-His-Biosensor can bind Human IL-13Ra1, hFc Tag with an affinity constant of 40.70 nM as determined in BLI assay .

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