

Human IL-13Ra1 Protein

Cat. No. ILR-HM1R1

Description

Source	Recombinant Human IL-13Ra1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala27-Thr343.
Accession	P78552-1
Molecular Weight	The protein has a predicted MW of 37.7 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

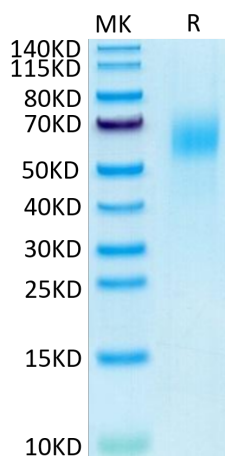
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days 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.

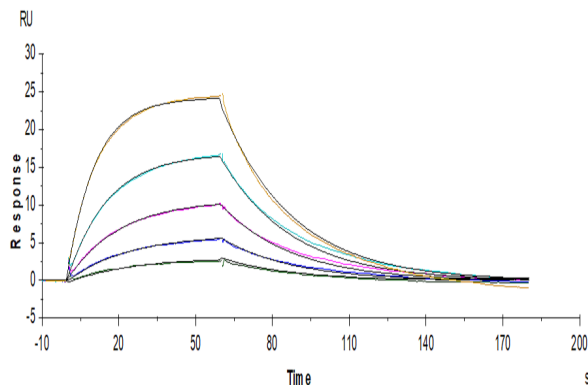
Assay Data

Tris-Bis PAGE



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

SPR Data



Human IL-13, His Tag immobilized on CM5 Chip can bind Human IL-13Ra1, His Tag with an affinity constant of $1\mu\text{M}$ as determined in a SPR assay (Biacore T200).