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IL13 Receptor alpha 1 Protein (AA 27-343) (His tag)

Images



Overview

Quantity:	100 μg
Target:	IL13 Receptor alpha 1 (IL13RA1)
Protein Characteristics:	AA 27-343
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL13 Receptor alpha 1 protein is labelled with His tag.

Product Details

Purpose:	Human IL-13Ra1 Protein
Sequence:	Ala27-Thr343
Characteristics:	Recombinant Human IL-13Ra1 Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Ala27-Thr343.
Purity:	> 95 % as determined by Tris-Bis PAGE
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of $1\mu M$ as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

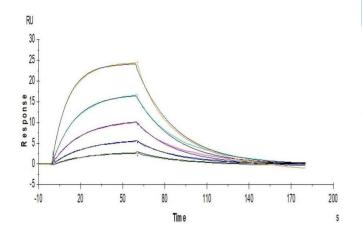
Target:	IL13 Receptor alpha 1 (IL13RA1)
Alternative Name:	IL-13Ra1 (IL13RA1 Products)
Background:	Two type 1 membrane proteins belonging to the hemopoietin receptor family have been cloned and shown to bind IL-13 with differing affinities. The lower affinity IL-13 binding protein, previously designated 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.
Molecular Weight:	37.7 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.
Pathways:	JAK-STAT Signaling, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response

Application Details

Restrictions:	For Research Use only

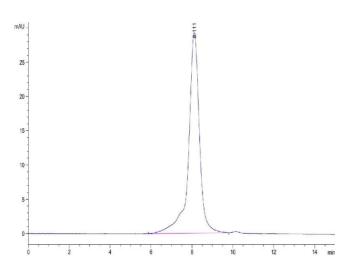
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from $0.22\mu m$ filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months 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.
Expiry Date:	12 months



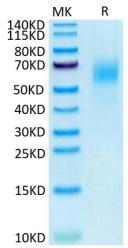
Surface Plasmon Resonance

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



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of IL-13Ra1 is greater than $95\,\%$ as determined by SEC-HPLC



SDS-PAGE

 $\label{eq:local_local_local_local} \textbf{Image 3.} \ \mbox{Human IL-13Ra1 on Tris-Bis PAGE under reduced} \\ \ \mbox{condition. The purity is greater than 95 \%} \ .$