



[Go to Product page](#)

Datasheet for ABIN7274876

## IL-13 Protein (AA 19-132) (His tag)

### 3 Images

#### Overview

Quantity:	100 µg
Target:	IL-13 (IL13)
Protein Characteristics:	AA 19-132
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-13 protein is labelled with His tag.

#### Product Details

Purpose:	Cynomolgus IL-13 Protein
Sequence:	Ser19-Asn132
Characteristics:	Recombinant Cynomolgus IL-13 Protein is expressed from HEK293 with His tag at the N-Terminus.It contains Ser19-Asn132.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 21.16 nM as determined in SPR assay (Biacore T200). See testing image for detail.

## Target Details

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Target:	IL-13 (IL13)
Alternative Name:	IL-13 ( <a href="#">IL13 Products</a> )
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.
Molecular Weight:	13.59 kDa. Due to glycosylation, the protein migrates to 30-45 kDa based on Tris-Bis PAGE result.
UniProt:	<a href="#">Q0PW92</a>
Pathways:	<a href="#">JAK-STAT Signaling</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">Proton Transport</a>

## Application Details

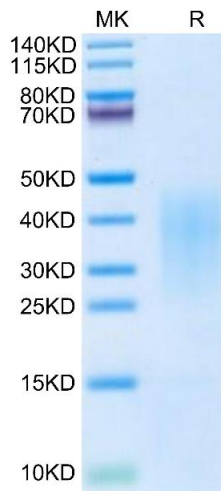
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Restrictions:	For Research Use only
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## Handling

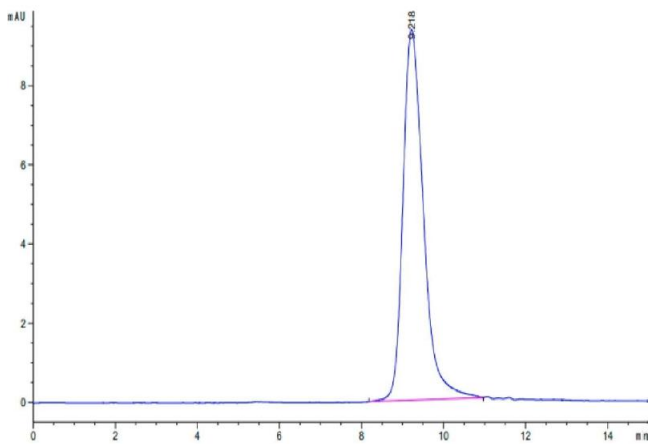
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Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in 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



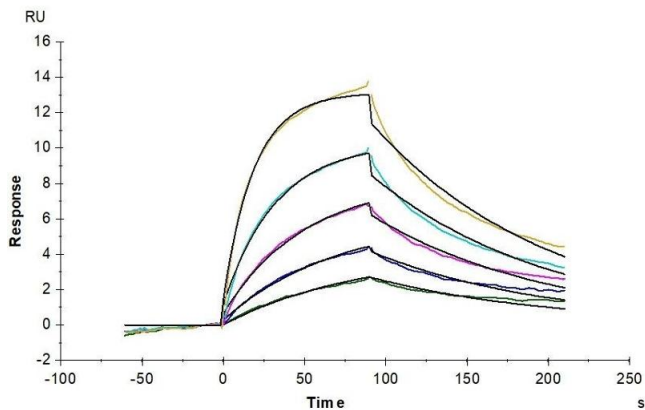
### SDS-PAGE

**Image 1.** Cynomolgus IL-13 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



### Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Cynomolgus IL-13 is greater than 95 % as determined by SEC-HPLC.



### Surface Plasmon Resonance

**Image 3.** 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).