

Datasheet for ABIN7274942

IL-31 Protein (AA 24-164) (His tag)**4** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	IL-31 (IL31)
Protein Characteristics:	AA 24-164
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-31 protein is labelled with His tag.

Product Details

Purpose:	Human IL-31 Protein
Sequence:	Ser24-Thr164
Characteristics:	Recombinant Human IL-31 Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Ser24-Thr164.
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:	Immobilized Human IL-31, His Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Human IL-31 RA, hFc Tag with the EC50 of 1.2µg/ml determined by ELISA. The affinity constant of 1.5nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

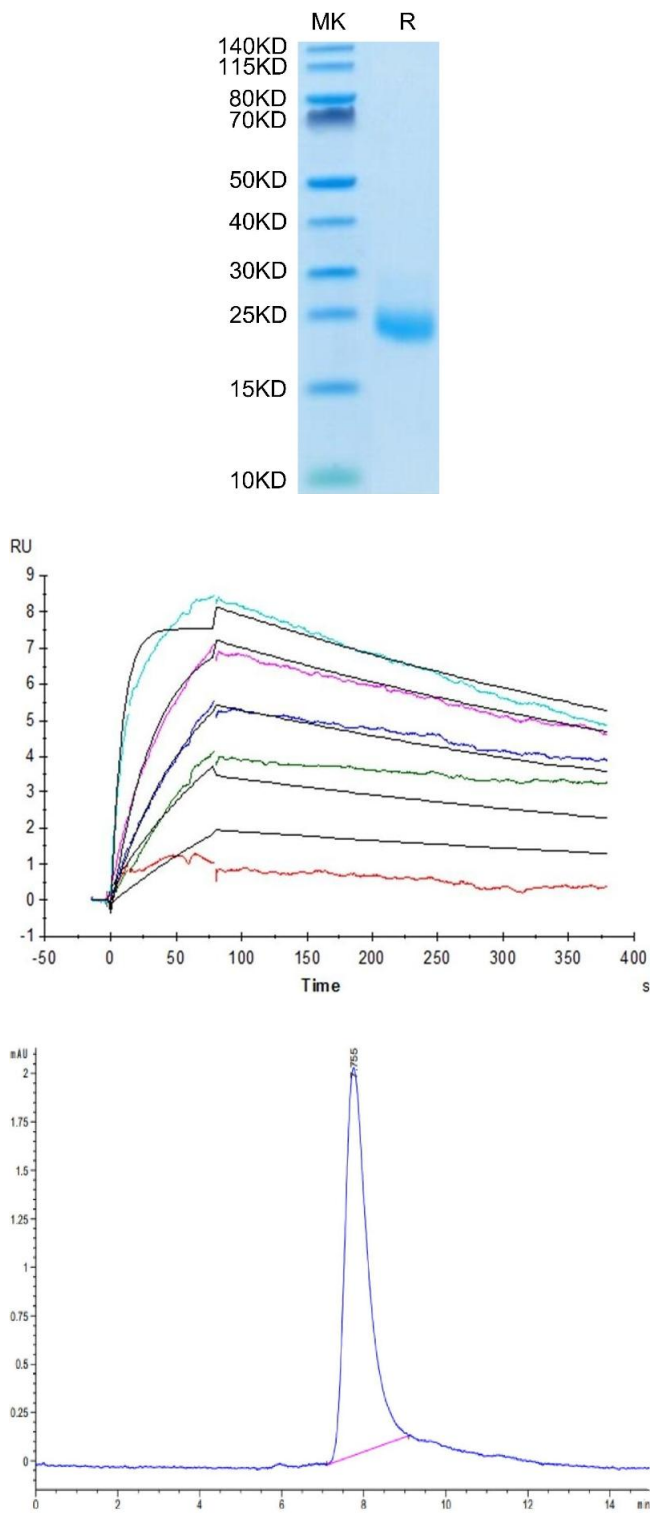
Target:	IL-31 (IL31)
Alternative Name:	IL-31 (IL31 Products)
Background:	Many autoimmune skin diseases, such as bullous pemphigoid (BP), psoriasis and certain types of chronic urticaria, are associated with intensive pruritus. While histamine and neuropeptides have previously been ascribed to play a role in itch that accompanies these diseases, recent evidence suggests that the pruritogenic cytokine interleukin (IL)-31 is a major driver of pruritic responses. IL-31 was originally shown to be produced by activated helper T cells, particularly Th2 cells, mast cells, macrophages and dendritic cells.
Molecular Weight:	16.9 kDa. Due to glycosylation, the protein migrates to 20-25 kDa based on Tris-Bis PAGE result.

Application Details

Restrictions:	For Research Use only
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Handling

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. Human IL-31 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Surface Plasmon Resonance

Image 2. Human IL-31 RA, hFc Tag captured on Protein A chip, can bind Human IL-31, His Tag with an affinity constant of 1.5nM as determined in a SPR assay (Biacore T200).

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Human IL-31 is greater than 95 % as determined by SEC-HPLC.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7274942.