

# Recombinant Human IL-31 Protein

Catalog No.: RP00634 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	386653	Q6EBC2-1

### Tags

N-His

### Synonyms

Interleukin-31; IL-31;IL31

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE > 95% by HPLC

### Endotoxin

< 1 EU/μg of the protein by LAL method

### 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 vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## 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.

## Basic Information

### Description

Recombinant Human IL-31 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser24-Thr164) of Human IL-31 (Accession #Q6EBC2-1) fused with a N-His tag at the N-terminus.

### Bio-Activity

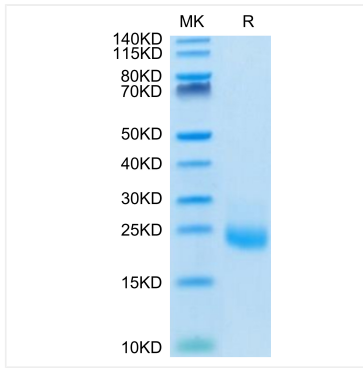
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

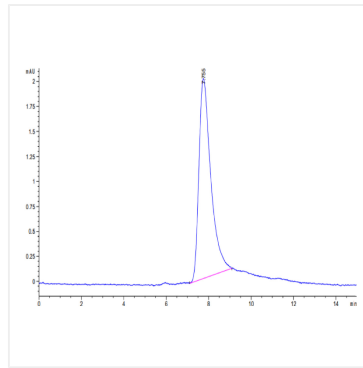
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

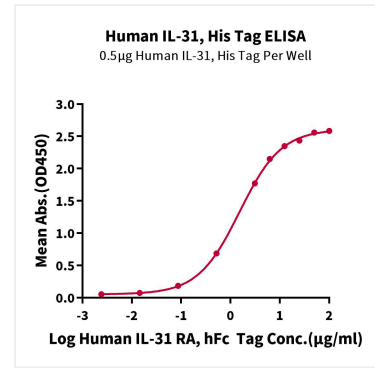
## Validation Data



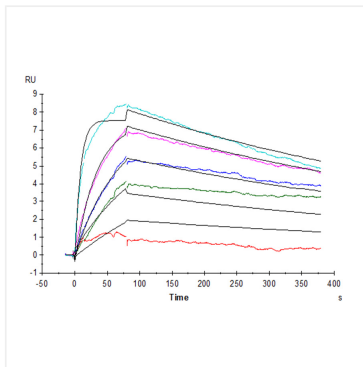
Human IL-31 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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



Immobilized Human IL-31, His Tag at 5 µg/mL (100 µL/Well) on the plate. Dose response curve for Human IL-31 RA, hFc Tag with the  $EC_{50}$  of 1.53 µg/mL determined by ELISA (QC Test).



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).