

# Recombinant Human IL-31 protein (rFc Tag)

Catalog Number: Eg2222

## Basic Information

**ED50:**  
/**GeneID:**  
386653**Species:**  
Human**Accession:**  
Q6EBC2**Purity:**  
>90 %, SDS-PAGE

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE**Endotoxin Level:**  
<1.0 EU/ µg protein, LAL method**Source:**  
HEK293-derived Human IL-31 protein Ser24-Thr164 (Accession# Q6EBC2) with a rabbit IgG Fc tag at the N-terminus.**Predicted Molecular Mass:**  
42.6 kDa**SDS-PAGE:**  
42-55 kDa, reducing (R) condition**Formulation:**  
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**  
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Interleukin-31 (IL-31) is a newly discovered four-helix bundle cytokine and expressed by several types of cells under both normal and disease state, such as activated CD4+T cells, mast cells, monocytes, macrophages, immature and mature monocyte-derived dendritic cells and so on. IL-31 signals through a heterodimeric receptor complex consisting of the IL31 receptor alpha (IL31R $\alpha$ ) and the oncostatin M receptor (OSMR). IL-31 plays a predominant function in the mediation of inflammatory and lymphoma-associated itch. Increased IL-31 expression has been detected in inflamed tissues from patients with atopic dermatitis, bowel diseases, allergic asthma and rhinitis.

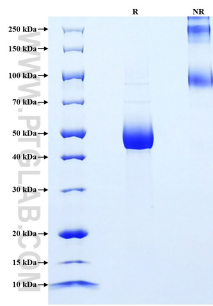
## References

1. Zhang Q. et al. (2008) Cytokine Growth Factor Rev. 19:347-56.
2. Dillon SR. et al. (2004) Nat Immunol. 5:752-60.
3. Sonkoly E. et al. (2006) J Allergy Clin Immunol. 117: 411-417.
4. Bilsborough J. et al. (2006) J Allergy Clin Immunol. 117: 418-425.
5. Raap U. et al. (2008) J Allergy Clin Immunol. 122: 421-423.

## Synonyms

IL31, IL 31, IL-31, interleukin 31, Interleukin-31

## Selected Validation Data



Purity of Recombinant Human IL-31 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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