

Recombinant Human IL-31 Protein

Catalog No.: RP00634

Sequence Information

Species **Gene ID**
Human 386653

Swiss Prot **Tags**
Q6EBC2-1 N-His

Synonyms
Interleukin-31; IL-31; IL31

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
 determined by
 SDS-PAGE; ≥ 95
 % as determined
 by HPLC.

Calculated MW **Observed MW**
16.9 kDa 20-25 kDa

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.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

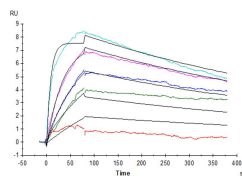
Contact

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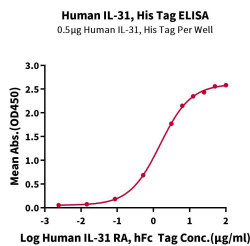
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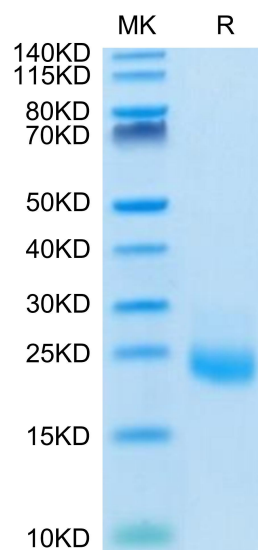
Validation Data



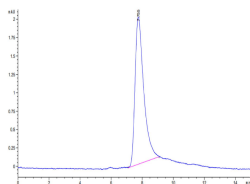
Human IL-31 RA, hFc Tag captured on Protein A chip, can bind Human IL-31, His Tag with an affinity constant of 1.5nM as determined in a SPR assay (Biacore T200).



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 EC₅₀ of 1.53 µg/mL determined by ELISA (QC Test).



Recombinant Human IL-31 Protein was determined by Tris-Bis PAGE under reducing conditions.



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