

# Recombinant Human IL-31RA Protein

Catalog No.: RP02671 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	133396	Q8NI17-1

### Tags

C-His

### Synonyms

IL-31RA; IL-31R-alpha; Gp130-like receptor; CRL3; GPL; ZcytoR17; GLM-R; CRL3Glmr; GLM-RMGC125346; PRO21384

## Product Information

Source	Purification
HEK293 cells	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

### Endotoxin

Less than 1EU per µg by the LAL method.

### Formulation

#### Reconstitution

Centrifuge the tube 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

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## Background

Interleukin-31 receptor A (IL-31RA) is a newly identified type I cytokine receptor, that is related to gp130, the common receptor of the interleukin (IL) -6 family cytokines. IL-31RA forms a functional receptor complex for IL-31 together with the beta subunit of oncostatin M receptor (OSMRbeta). OSMRbeta is expressed in a subset of small-sized nociceptive neurons of adult dorsal root ganglia (DRGs). IL-31 and OSM may thus have redundant functions in the development of OSMRbeta-expressing neurons.

## Basic Information

### Description

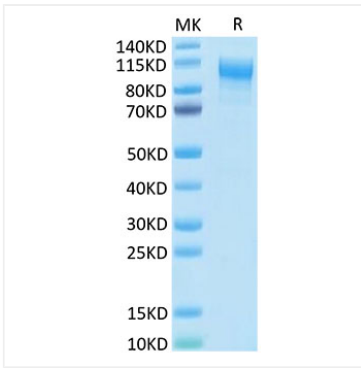
Recombinant Human IL-31RA Protein is expressed from Expi293 with His tag at the C-terminal. It contains Ala20-Glu519.

### Bio-Activity

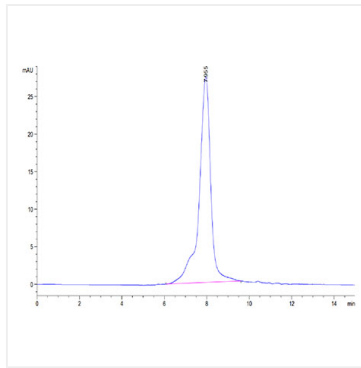
#### Storage

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.

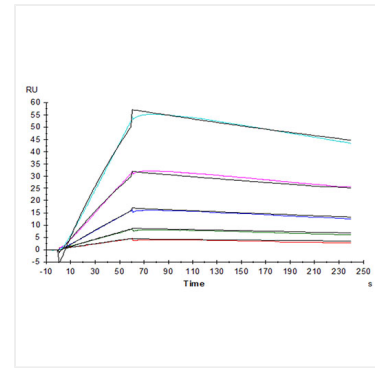
## Validation Data



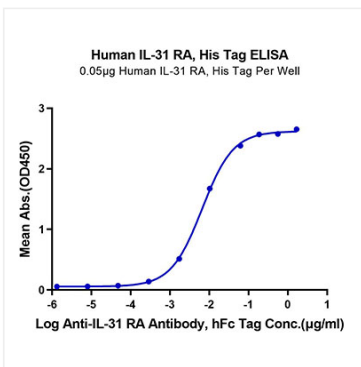
Human IL-31 RA on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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



Human IL-31, His Tag immobilized on CM5 Chip can bind Human IL-31 RA, His Tag with an affinity constant of 82.4nM as determined in a SPR assay (Biacore T200).



Immobilized Human IL-31 RA, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-IL-31 RA Antibody, hFc Tag with the  $EC_{50}$  of 6.5ng/ml determined by ELISA.