



## Synonym

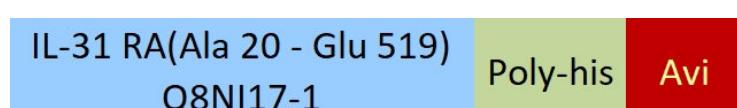
IL-31 RA,IL-31RA,hGLM-R,CRL3,GPL,ZcytoR17,GLM-R,IL-31R-alpha,Gp130-like receptor

## Source

Biotinylated Human IL-31 RA, His,Avitag(ILA-H82E9) is expressed from human 293 cells (HEK293). It contains AA Ala 20 - Glu 519 (Accession # [Q8NI17-1](#)).

Predicted N-terminus: Ala 20

## Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 60.7 kDa. The protein migrates as 90-110 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Labeling

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

## Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

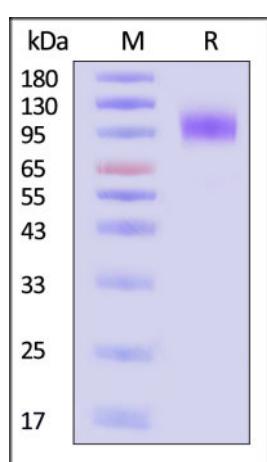
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



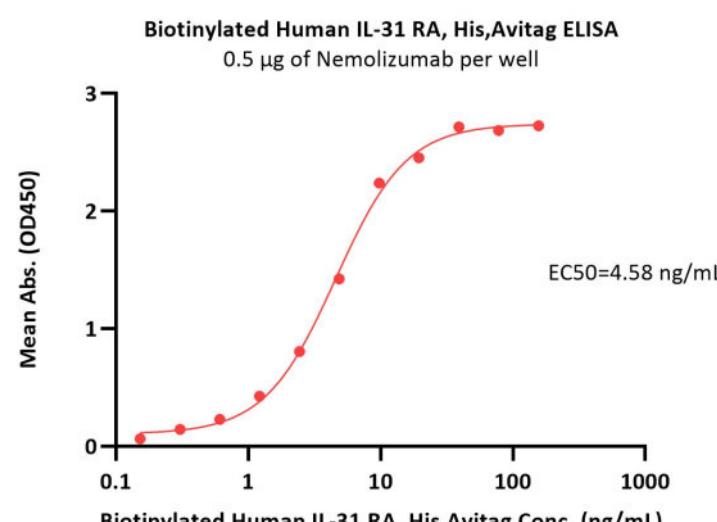
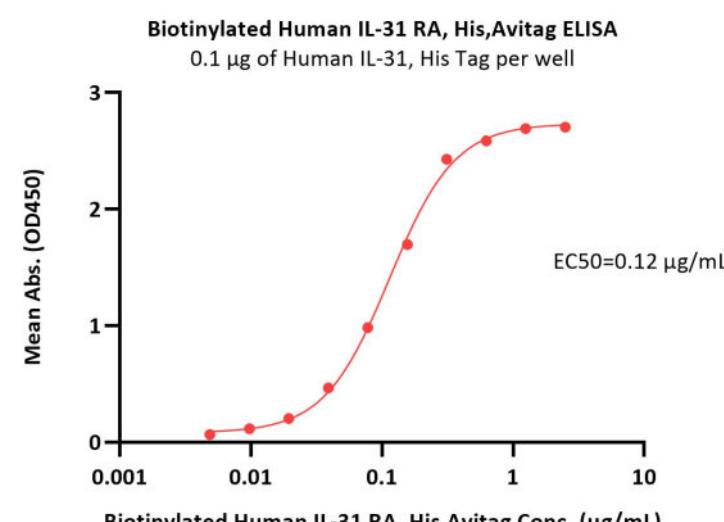
Biotinylated Human IL-31 RA, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

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Immobilized Human IL-31, His Tag (Cat. No. IL1-H5247) at 1 µg/mL (100 µL/well) can bind Biotinylated Human IL-31 RA, His,Avitag (Cat. No. ILA-H82E9) with a linear range of 0.005-0.3 µg/mL (QC tested).

Immobilized Nemolizumab at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-31 RA, His,Avitag (Cat. No. ILA-H82E9) with a linear range of 0.1-10 ng/mL (Routinely tested).

## Background

Interleukin-31 receptor subunit alpha is a protein that in humans is encoded by the IL31RA gene, also known as IL-31 receptor subunit alpha, IL-31RA, GLM-R, Gp130-like receptor, CRL3, GPL. Oncostatin M receptor (OSMR) and IL31RA form the heterodimeric receptor through which IL31 signals. IL31RA is a strong activator of STAT3 and STAT5, whereas STAT1 is only marginally tyrosine-phosphorylated. Additionally, demonstrate Jak1 binding to GPL and its activation in heteromeric complexes with the OSMRbeta but also in a homomeric receptor complex.

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