Biotinylated Human IL-31 RA Protein, His,Avitag™

Catalog # ILA-H82E9

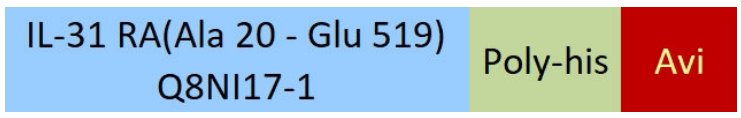
Synonym

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 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.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

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

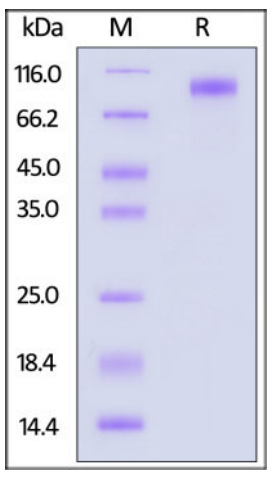
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

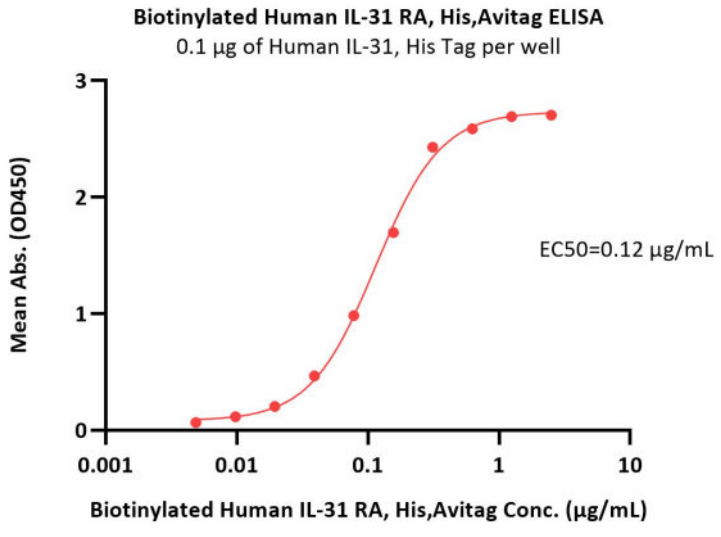
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

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%.

Bioactivity-ELISA



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).

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. dditionally, demonstrate Jak1 binding to GPL and its activation in heteromeric complexes with the OSMRbeta but also in a homomeric receptor complex.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.