

Synonym

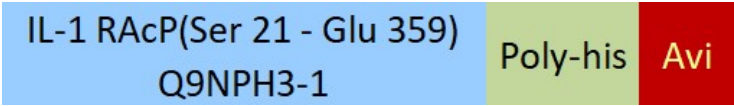
IL1RAP,IL-1RAcP,C3orf13,IL1R3

Source

Biotinylated Human IL-1 RAcP, His,Avitag(ILP-H82E5) is expressed from human 293 cells (HEK293). It contains AA Ser 21 - Glu 359 (Accession # [Q9NPH3-1](#)).

Predicted N-terminus: Ser 21

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 42.7 kDa. The protein migrates as 50-60 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

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

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

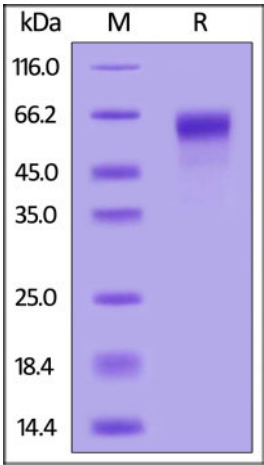
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

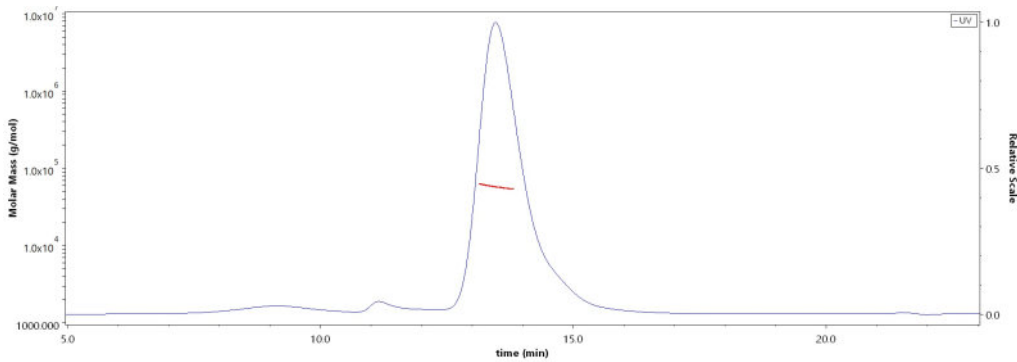
SDS-PAGE



Biotinylated Human IL-1 RAcP, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

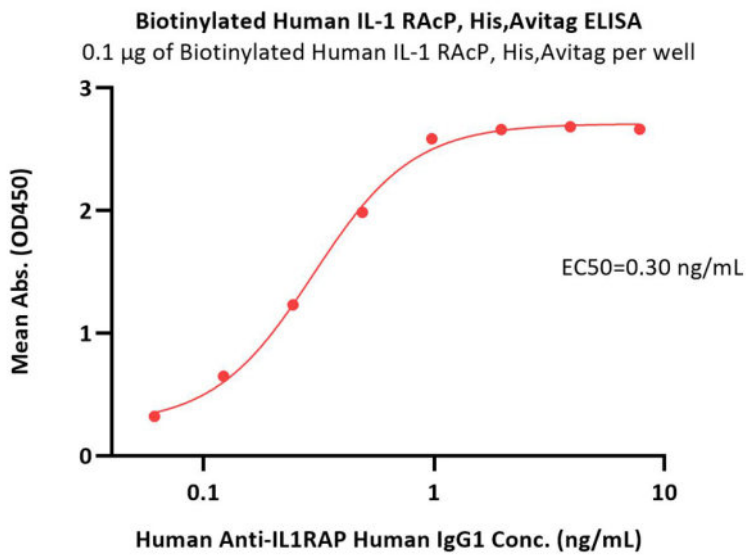
Bioactivity-ELISA

SEC-MALS



The purity of Biotinylated Human IL-1 RAcP, His,Avitag (Cat. No. ILP-H82E5) is more than 90% and the molecular weight of this protein is around 50-68 kDa verified by SEC-MALS.

[Report](#)



Immobilized Biotinylated Human IL-1 RAcP, His,Avitag (Cat. No. ILP-H82E5) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Human Anti-IL1RAP Human IgG1 with a linear range of 0.1-1 ng/mL (QC tested).

Background

Interleukin-1 receptor accessory protein (IL1RAP or IL-1RAcP) is also known as Interleukin-1 receptor 3 (IL-1R-3 or IL-1R3), C3orf13, which belongs to the interleukin-1 receptor family. IL1RAP contains three Ig-like C2-type (immunoglobulin-like) domains and one TIR domain. IL1RAP is detected in liver, skin, placenta, thymus and lung. IL-1R3 / IL1RAP is coreceptor with IL1R1, associates with IL1R1 bound to IL1B to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B and other pathways.

Clinical and Translational Updates

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