

Biotinylated Mouse IL-1 RAcP / IL-1 R3 Protein, His,Avitag™ (MALS verified)

Catalog # ILP-M82E3



BIOSYSTEMS
Acro

Synonyms

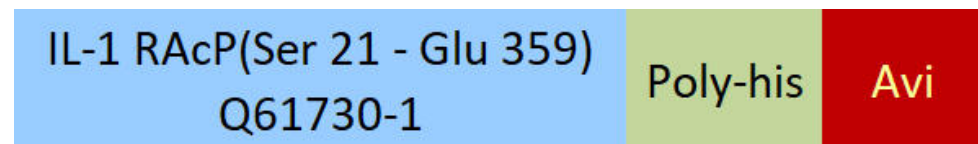
IL1RAP, IL-1RAcP, C3orf13, IL1R3

Source

Biotinylated Mouse IL-1 RAcP R3 Protein, His,Avitag (ILP-M82E3) is expressed from human 293 cells (HEK293). It contains AA Ser 21 - Glu 359 (Accession # [Q61730-1](#)).

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 42.9 kDa. The protein migrates as 55-70 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 Avi tag is enzymatically labeled with biotin.

Protein Ratio

0.7-1.0 as determined by the SABA assay / HABA assay / binding ELISA.

Purity

>95% as determined by SDS-PAGE.

>95% 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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

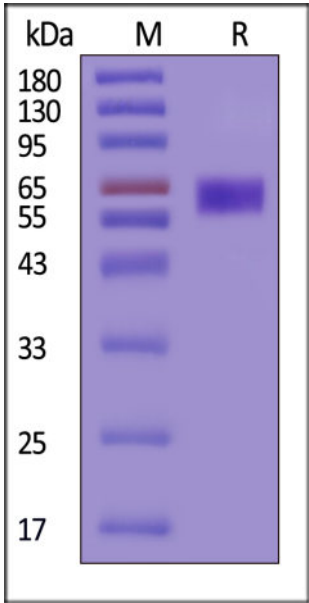
This product is stable after storage at:

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

ACRO Quality Management System

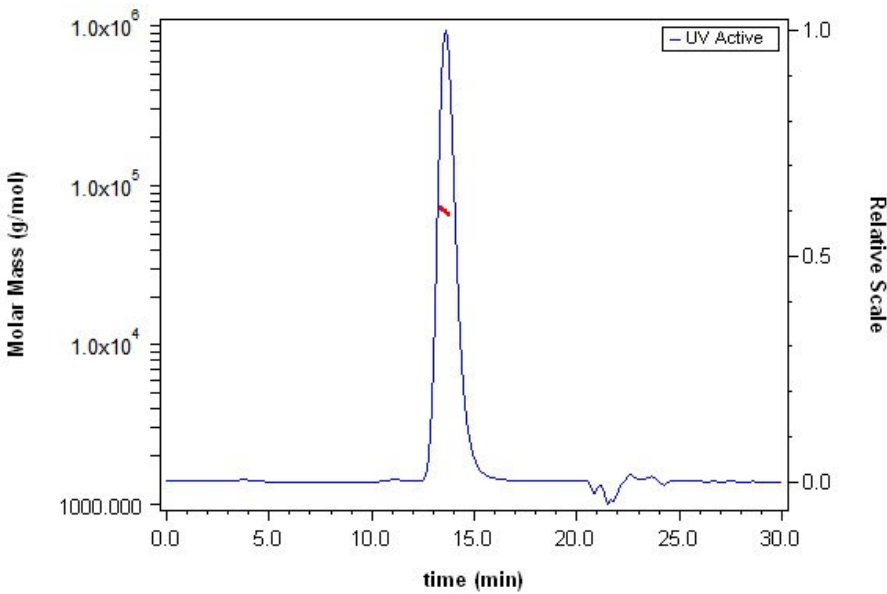
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



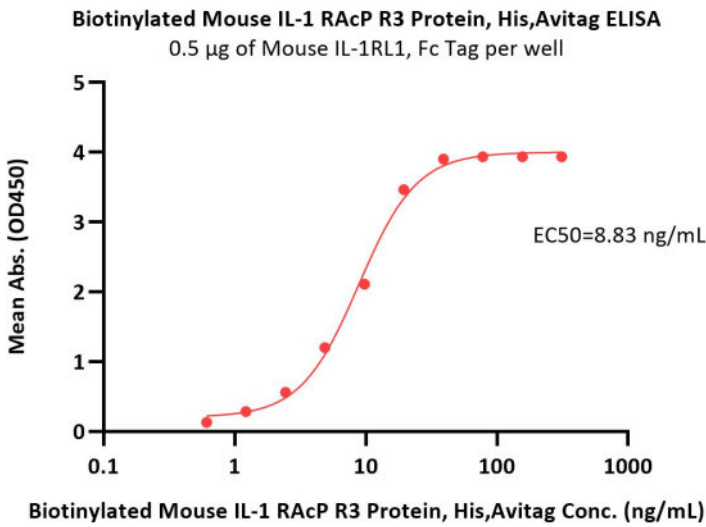
Biotinylated Mouse IL-1 RAcP R3 Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Biotinylated Mouse IL-1 RAcP R3 Protein, His,Avitag (Cat. No. ILP-M82E3) is more than 95% and the molecular weight of this protein is around 50-70 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Mouse IL-1RL1, Fc Tag (Cat. No. IL1-M5259) at 5 µg/mL (100 µL/well), add 50 µl/well of Mouse IL-33, His Tag (Cat. No. IL3-M5245) at 5 µg/mL and then add Biotinylated Mouse IL-1 RAcP R3 Protein, His,Avitag (Cat. No. ILP-M82E3) at increasing concentrations (50 µL/well). Detection was performed using Streptavidin Protein-HRP, Horseradish peroxidase conjugated Streptavidin (Acro, Cat. No. STN-NH913) with sensitivity of 8.83 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.



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