

Synonyms

IL-1 RI

Source

Human IL-1 RI Protein, Fc Tag (ILI-H5253) is expressed from human 293 cells (HEK293). It contains AA Leu 18 - Lys 336 (Accession # [P14778](#)).
Predicted N-terminus: Leu 18

Molecular Characterization

IL-1 RI(Leu 18 - Lys 336) P14778	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.
The protein has a calculated MW of 63.1 kDa. The protein migrates as 75-90 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

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.

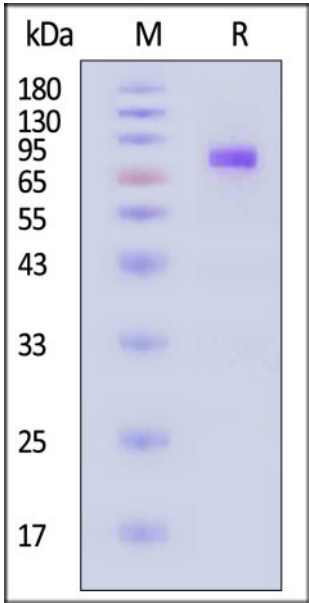
This product is stable after storage at:

- 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

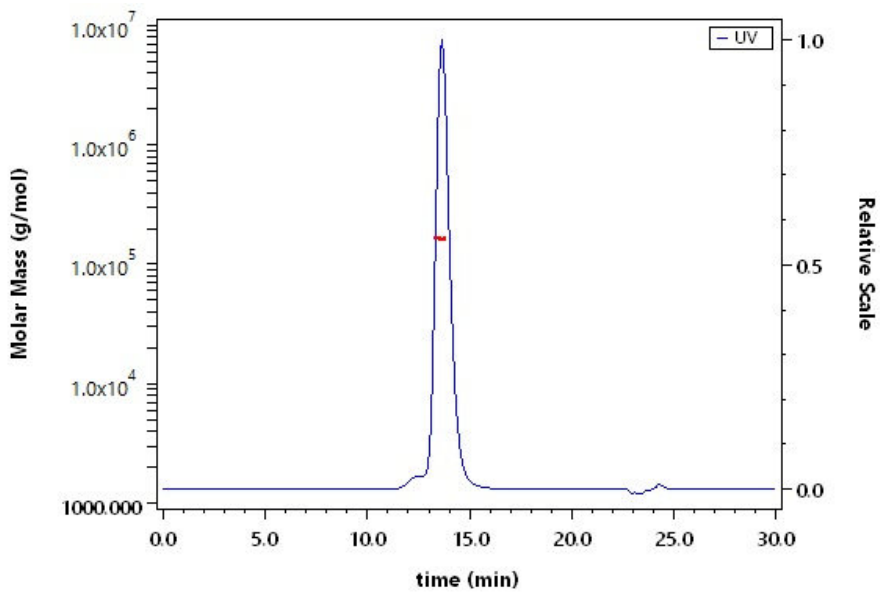
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



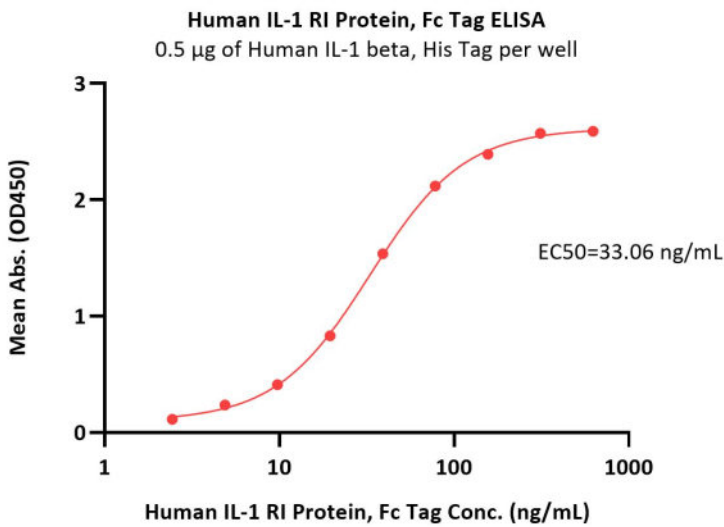
Human IL-1 RI Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human IL-1 RI Protein, Fc Tag (Cat. No. ILI-H5253) is more than 95% and the molecular weight of this protein is around 145-175 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human IL-1 beta, His Tag (Cat. No. ILB-H51H3) at 5 µg/mL (100 µL/well) can bind Human IL-1 RI Protein, Fc Tag (Cat. No. ILI-H5253) with a linear range of 2-78 ng/mL (QC tested).

Background

IL1R1 also know as Interleukin-1 receptor type 1, is the receptor for IL1A, IL1B and IL1RN. After binding to interleukin-1 associates with the coreceptor IL1RAP to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B, MAPK and other pathways. Signaling involves the recruitment of adapter molecules such as TOLLIP, MYD88, and IRAK1 or IRAK2 via the respective TIR domains of the receptor/coreceptor subunits. Binds ligands with comparable affinity and binding of antagonist IL1RN prevents association with IL1RAP to form a signaling complex. Involved in IL1B-mediated costimulation of IFNG production from T-helper 1 (Th1) cells



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