

# Human IL-36Ra Protein, Tag Free (HPLC & SPR verified)

Catalog # ILA-H5117



BIOSYSTEMS  
**Acro**

Surprise Inside!

## Synonym

IL-36Ra, FIL1 delta, IL-1RP3, IL-1HY1, IL-1 delta, IL-1F5, IL-1L1, IL1F5, IL36Ra, IL36RN

## Source

Human IL-36Ra Protein, Tag Free (ILA-H5117) is expressed from *E. coli* cells. It contains AA Val 2 - Asp 155 (Accession # [Q9UBH0](#)).

Predicted N-terminus: Val

## Molecular Characterization

IL-36Ra(Val 2 - Asp 155)  
Q9UBH0

This protein carries no "tag".

The protein has a calculated MW of 16.8 kDa. The protein migrates as 15-16 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

## Endotoxin

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

## Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-HPLC.

## 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.**

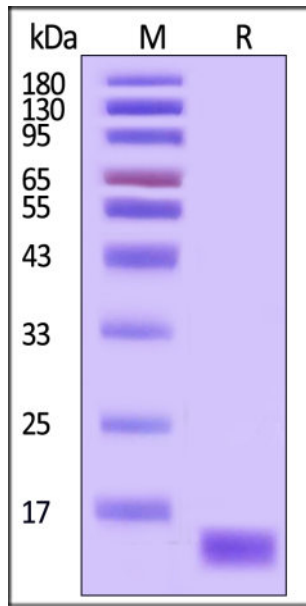
This product is stable after storage at:

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

## ACRO Quality Management System

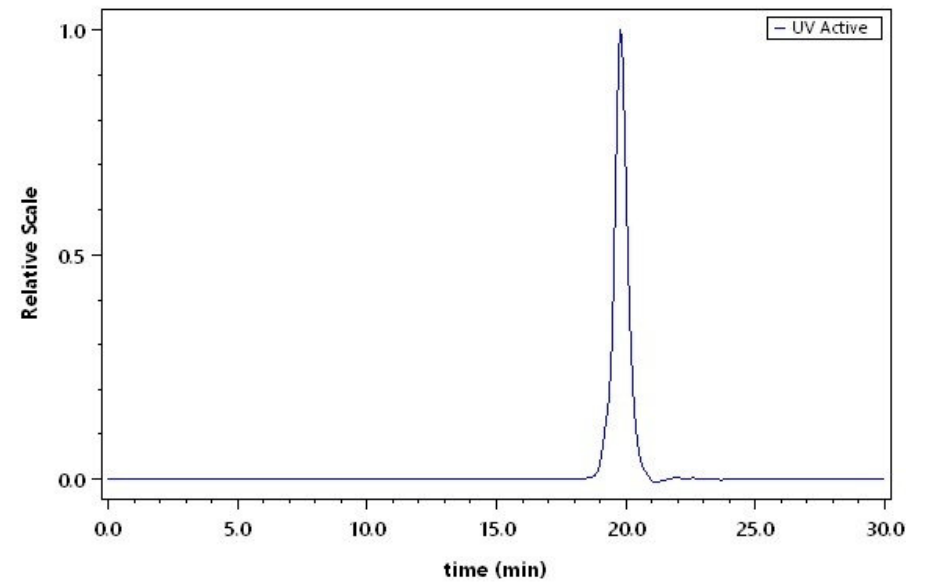
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



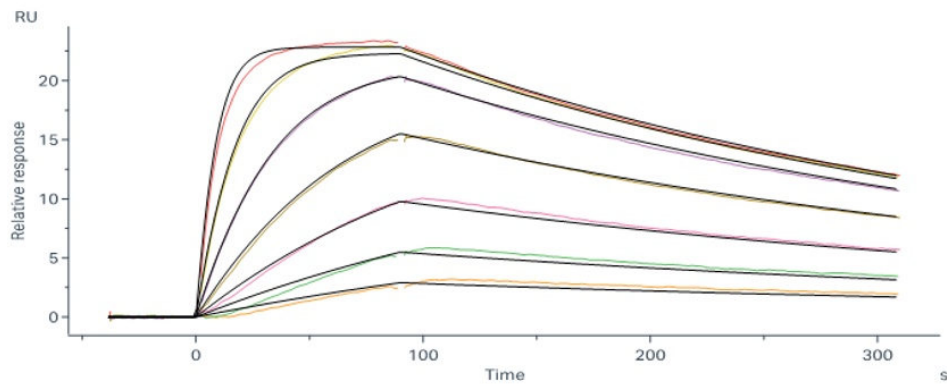
Human IL-36Ra Protein, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-HPLC



The purity of Human IL-36Ra Protein, Tag Free (Cat. No. ILA-H5117) was greater than 90% as determined by SEC-HPLC.

## Bioactivity-SPR



Biotinylated Human IL-1 Rrp2, His,Avitag (Cat. No. IL2-H82E9) immobilized on SA Chip can bind Human IL-36Ra Protein, Tag Free (Cat. No. ILA-H5117) with an affinity constant of 2.32 nM as determined in a SPR assay (Biacore 8K) (QC tested).

## Background

The IL-36 subfamily of cytokines is the most diverse, including three agonists (IL-36 $\alpha$ , IL-36 $\beta$ , and IL-36 $\gamma$ ), one antagonist (IL-36Ra), one cognate receptor (IL-36R) and one accessory protein (IL-1RAcP). The receptor activation follows a two-step mechanism in that the agonist first binds to IL-36R and the resulting binary complex recruits IL-1RAcP. IL-36Ra inhibits the activity of IL-36 (IL-36 $\alpha$ , IL-36 $\beta$ , and IL-36 $\gamma$ ) by binding to the receptor IL-36R and preventing IL-36R from associating with the coreceptor IL-1RAcP for signaling.

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