



### Synonym

IL-17 RB, Interleukin-17 receptor B, Interleukin-17 receptor B, Cytokine receptor-like 4, IL-17 receptor homolog 1, IL-17Rh1, IL17Rh1, Interleukin-17B receptor, IL-17B receptor, IL17RB, CRL4, EVI27, IL17BR

### Source

Human IL-17 RB, Fc Tag(ILB-H5251) is expressed from human 293 cells (HEK293). It contains AA Arg 18 - Pro 292 (Accession # [Q9NRM6-1](#)).  
 Predicted N-terminus: Arg 18

### Molecular Characterization

|  |                                 |
|--|---------------------------------|
| IL-17 RB(Arg 18 - Pro 292)<br>Q9NRM6-1 | Fc(Pro 100 - Lys 330)<br>P01857 |
|--|---------------------------------|

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 56.7 kDa. The protein migrates as 65-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

### 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 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH 7.5 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

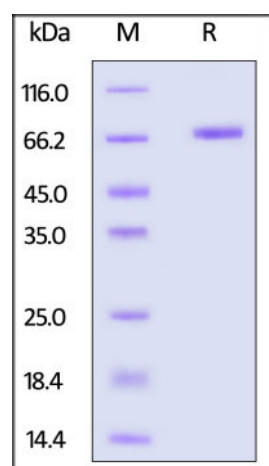
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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

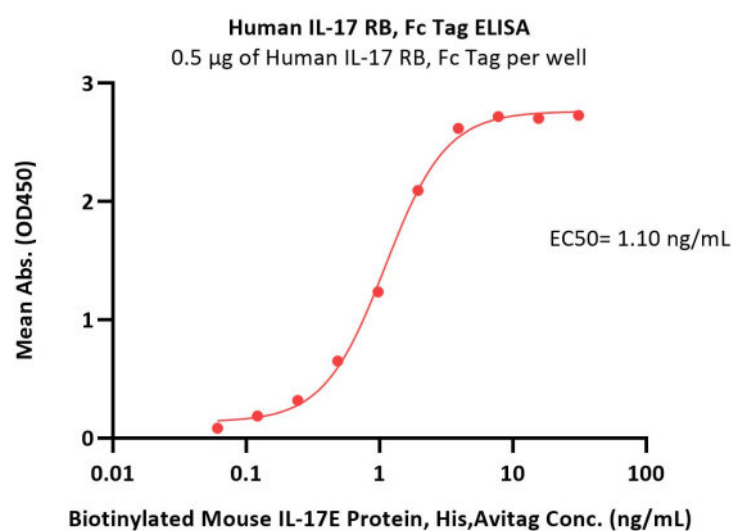


Human IL-17 RB, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

### Bioactivity-ELISA

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Immobilized Human IL-17 RB, Fc Tag (Cat. No. ILB-H5251) at 5 µg/mL (100 µL/well) can bind Biotinylated Mouse IL-17E Protein, His,Avitag (Cat. No. ILE-M82E3) with a linear range of 0.06-2 ng/mL (QC tested).

## Background

IL17RB (EVI27, IL17Rh1) is a single pass transmembrane receptor which belongs to IL17R family of cytokine receptors. It was found to be expressed in liver, brain, testis and lungs. The ligand for IL17RB is IL17E, also known as IL25. The five IL-17 receptors (IL17RA-IL17RE) exhibit considerable sequence divergence between one another, but all appear to contain extracellular domains composed of fibronectin type-III (FnIII) domains, and cytoplasmic SEF/IL-17R (SEFIR) domains that show loose homology to Toll/IL-1R (TLR) domains.

## Clinical and Translational Updates

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