

For Research Use Only

# Recombinant Human IL17-RC protein (rFc Tag)



Catalog Number: Eg2835

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/  $\mu$ g protein, LAL method

**Source:**

HEK293-derived Human IL17-RC protein Leu21-His465 (Accession# NP\_703190.1) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**

84818

**Accession:**

NP\_703190.1

**Predicted Molecular Mass:**

75.0 kDa

**SDS-PAGE:**

87-125 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

The IL-17 family has five receptors: IL-17RA (or IL-17R), IL-17RB (or IL-17Rh1), IL-17RC (or IL-17RL), IL-17RD and IL-17RE. IL-17RC is a 720-amino acid type I transmembrane protein with a 20-amino acid signal peptide, a 447-amino acid N-terminal extracellular domain, a 21-amino acid hydrophobic  $\alpha$ -helical transmembrane domain, and a 232-amino acid intracellular domain. IL-17RC is expressed on several hematopoietic cells. It is found on CD4<sup>+</sup> T helper 17 (TH17) cells, where it forms part of the IL-17RA/IL-17RC complex and participates in autoregulatory signaling. IL17RC is also widely expressed in nonleukocyte tissues and forms a heteromeric receptor for IL17 with IL17R. Its roles span from essential antifungal defense and the regulation of autoimmune T cells to influencing nervous system innervation and controlling tumor cell proliferation. The receptor's expression on both immune and non-immune stromal cells positions it as a central integrator of inflammatory and tissue-homeostatic signals.

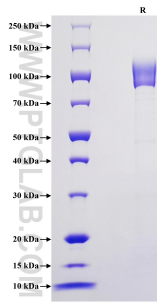
## References

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- 2.Kugler, David et al. Journal of immunology (Baltimore, Md. : 1950) vol. 177,1 (2006): 36-9.
- 3.Luebke J,Kilian C,Asada N, et al. J Am Soc Nephrol. 2021;32 (12):3081-3098.
- 4.Kang, Jee Hyun et al. Gastric cancer vol. 26,1 (2023): 82-94.
- 5.Gaffen SL,Ho AW,Gaffen SL, et al. Semin Immunopathol. 2010;32 (1):33-42.

## Synonyms

IL17RC, IL-17 receptor C, IL17 RL, IL17RL, IL-17RL

## Selected Validation Data



Purity of Recombinant Human IL17-RC was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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