

For Research Use Only

# Recombinant Human IL-21R protein (rFc Tag)



Catalog Number: Eg1353

## 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 IL-21R protein Cys20-Pro236 (Accession# Q9HBE5) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
50615

**Accession:**  
Q9HBE5

**Predicted Molecular Mass:**  
51.3 kDa

**SDS-PAGE:**  
60-70 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

IL21R, a receptor for interleukin-21, belongs to the type I cytokine receptor family. IL21R has been shown to form a heterodimeric receptor complex with the common gamma-chain, a receptor subunit also shared by the receptors for interleukin 2, 4, 7, 9, and 15. This receptor transduces the growth promoting signal of IL21, and is important for the proliferation and differentiation of T cells, B cells, and natural killer (NK) cells. The ligand binding of this receptor leads to the activation of multiple downstream signaling molecules, including JAK1, JAK3, STAT1, and STAT3.

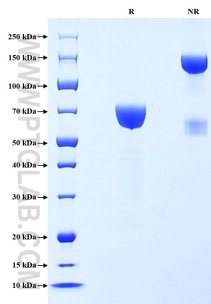
## References

1. Hecker A. et al. (2009). Immunobiology. 214(1):41-9.
2. Wang T. et al. (2015). Arterioscler Thromb Vasc Biol. 35(5):1218-25.
3. Yang DJ. et al. (2016). Zhongguo Dang Dai Er Ke Za Zhi. 18(5):466-71.

## Synonyms

IL21R, CD360, IL 21 receptor, IL 21R, IL-21 receptor

## Selected Validation Data



Purity of Recombinant Human IL-21R was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

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

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