

# Recombinant Mouse IL-21R/CD360 Protein

Catalog No.: RP02858 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	60504	Q9JHX3

### Tags

C-hFc

### Synonyms

CD360;NLR;IL-21 R;IL-21 receptor;IL21R;IL-21R;interleukin 21 receptor;interleukin-21 receptor;IL21R

## Product Information

Source	Purification
HEK293 cells	>90% as determined by SEC-HPLC.

### Endotoxin

&lt;1EU/μg

### Formulation

Lyophilized from a 0.22 μm filtered solution of 50mM Tris, 100mM NaCl, pH 7.4, 20% gly, 0.3mM DTT.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

Interleukin-21 receptor, also known as IL-21 receptor, IL-21R, Novel interleukin receptor, IL21R and NLR, is a single-pass type I membrane protein which belongs to the type I cytokine receptor family and Type 4 subfamily. Interleukin-21 (IL-21) belongs to a family of cytokines, and 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

## Basic Information

### Description

Recombinant Mouse IL-21R/CD360 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Cys20-Pro236) of mouse IL-21R/CD360 (Accession #AAL82636.1) fused with a hFc tag at the C-terminus.

### Bio-Activity

Measured by its ability to inhibit Mouse IL-21-induced Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED<sub>50</sub> for this effect is typically 0.2-1.5 μg/mL in the presence of 50 ng/mL of recombinant mouse IL-21.

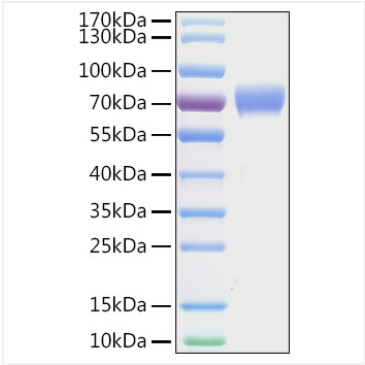
### Storage

Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C to -80°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

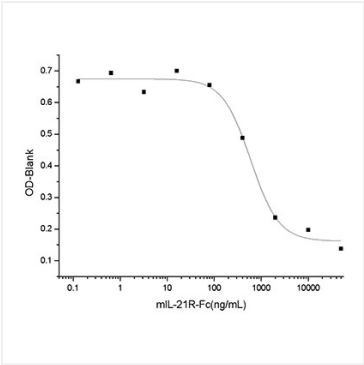
## Contact

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# Validation Data



Recombinant Mouse IL-21R/CD360 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-70 kDa.



Recombinant Mouse IL-21R/CD360 inhibits Mouse IL-21-induced Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED<sub>50</sub> for this effect is typically 0.2-1.5 µg/mL in the presence of 50 ng/mL of recombinant mouse IL-21.