

Bioactive

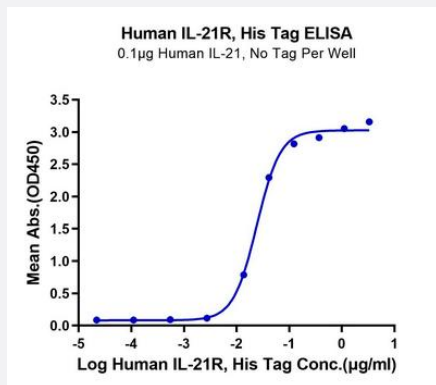
HuPro®

# IL21R (Human) Recombinant Protein

Catalog # P9720

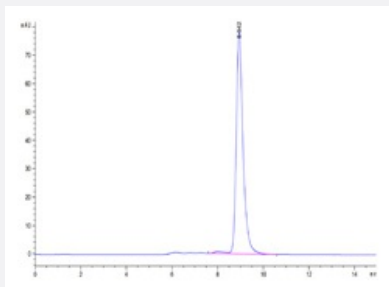
Size 100 ug

## Applications



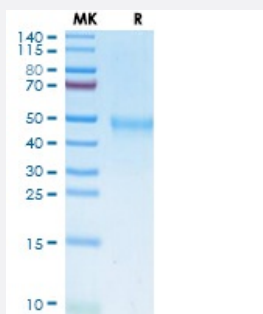
### Enzyme-linked Immunoabsorbent Assay

Immobilized Human IL-21 at 1 ug/mL (100 uL/well) on the plate. Dose response curve for Human IL-21R, His Tag with the EC<sub>50</sub> of 24.3 ng/mL determined by ELISA.



### SEC-HPLC

Human IL-21R on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



### Tris-Bis PAGE

Human IL-21R on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

## Specification

|                         |   |
|-------------------------|---|
| Product Description     | Human IL21R (Q9HBE5, 20 a.a. - 232 a.a.) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells.  |
| Sequence                | CPDLVCYTDYLQTVICILEMWNLHPSTLTLTWQDQYEELKDEATSCSLHRSAHNATHATYTCHMDVFHFMADDIFS VNITDQSGNYSQECGSFLLAESIKPAPPFNVTVTFSGQYNISWRSDYEDPAFYMLKGKQLQYELQYRNRGDPWAVSPRRKLISVDSRSVSLPLEFRKDSSYELQVRAGPMPGSSYQGTWSEWSDPVIFQTQSEELKE                      |
| Host                    | Human   |
| Theoretical MW (kDa)    | 25.65   |
| Form                    | Lyophilized   |
| Preparation Method      | Mammalian cell (Expi293, high-yield transient HEK293) expression system   |
| Purity                  | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC   |
| Endotoxin Level         | < 1 EU per 1 ug of protein (determined by LAL method)   |
| Activity                | The EC <sub>50</sub> was 24.3 ng/mL, measured by ELISA at 1 ug/mL.  |
| Quality Control Testing | SEC-HPLC and Tris-Bis PAGE<br>SEC-HPLC<br>Human IL-21R on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.<br>Tris-Bis PAGE<br>Human IL-21R on Tris-Bis PAGE under reduced condition. The purity is greater than 95%. |
| Recommend Usage         | Biological Activity<br>ELISA<br>SDS-PAGE<br>The optimal working dilution should be determined by the end user.  |
| Storage Buffer          | Lyophilized from sterile distilled Water is > 100 ug/mL   |
| Storage Instruction     | Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.   |
| Note                    | Result of bioactivity analysis  |

## Applications

- Enzyme-linked Immunoabsorbent Assay

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- Functional Study

- SDS-PAGE

## Gene Info — IL21R

Entrez GeneID [50615](#)

Protein Accession# [Q9HBE5](#)

Gene Name IL21R

Gene Alias MGC10967, NILR

Gene Description interleukin 21 receptor

Omim ID [147050 605383](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

The protein encoded by this gene is a cytokine receptor for interleukin 21 (IL21). It belongs to the type I cytokine receptors, 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. Knockout studies of a similar gene in mouse suggest a role for this gene in regulating immunoglobulin production. Three alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq]

Other Designations -

## Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Jak-STAT signaling pathway](#)

## Disease

- [Cerebral Hemorrhage](#)
- [Diabetes Mellitus](#)
- [Drug Hypersensitivity](#)

- [Encephalomyelitis](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Intracranial Hemorrhages](#)
- [Lupus Erythematosus](#)
- [Multiple Sclerosis](#)
- [Osteoporosis](#)
- [Stroke](#)
- [Subarachnoid Hemorrhage](#)