# Human IL-21 Protein

**Cat. No.** IL2-HE021

## Description

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|---|---|
| **Source** | Recombinant Human IL-21 Protein is expressed from E.coli without tag. |
| | It contains Gln32-Ser162. |
| **Accession** | Q9HBE4-1 |
| **Molecular Weight** | The protein has a predicted MW of 15.4 kDa same as Bis-Tris PAGE result. |
| **Endotoxin** | Less than 1EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |

## Formulation and Storage

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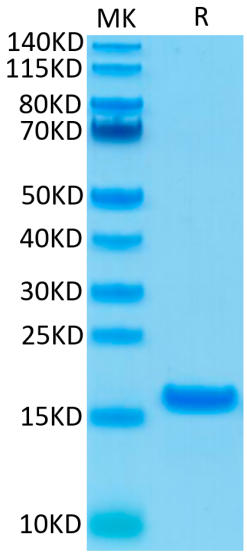
|---|---|
| **Formulation** | Lyophilized from 0.22μm filtered solution in 20mM NaAc, 150mM NaCl (pH 5.5). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in 20mM NaAc, 150mM NaCl (pH 5.5). |
| **Storage** | -20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

Interleukin-21 (IL-21), produced predominantly by CD4 T cells and natural killer T (NKT) cells, is a newly discovered member of the common γ-chain family of cytokines. It has been implicated in many immunological processes and has been linked to autoimmune diseases, allergies and other inflammatory diseases.

## Assay Data

**Bis-Tris PAGE**




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

**ELISA Data**

Human IL-21 Protein

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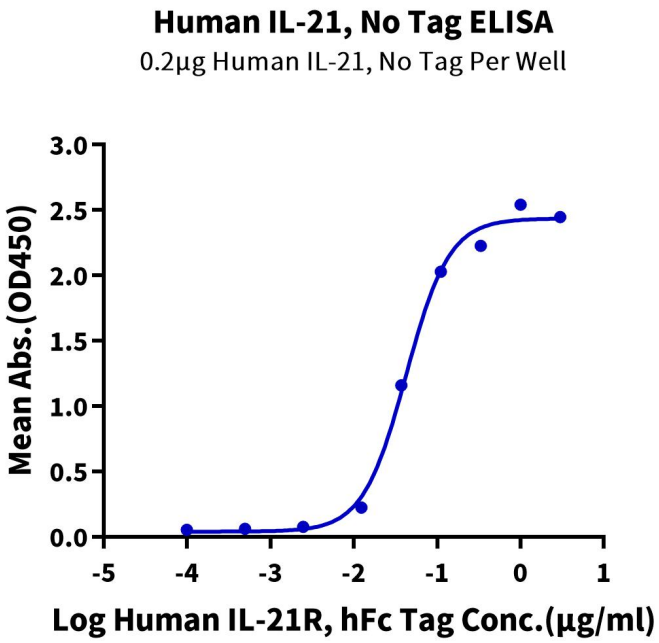
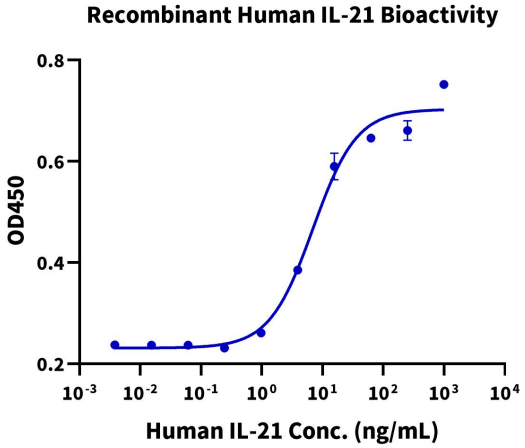
## Assay Data




Immobilized Human IL-21, No Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Human IL-21R, hFc Tag with the EC50 of 42.3ng/ml determined by ELISA.

Cell Based Assay




Measured by its ability to enhance IFN-gamma secretion in NK-92 human natural killer lymphoma cells. The ED50 for this effect is 1-3 ng/mL (QC Test).