

# Biotinylated Human IL-21 Protein

Cat. No. IL2-HE421B

## Description

<b>Source</b>	Recombinant Biotinylated Human IL-21 Protein is expressed from E.coli with His tag and Avi tag at the N-Terminus. It contains Gln32-Ser162.
<b>Accession</b>	Q9HBE4-1
<b>Molecular Weight</b>	The protein has a predicted MW of 18.30 kDa same as Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE

## Formulation and Storage

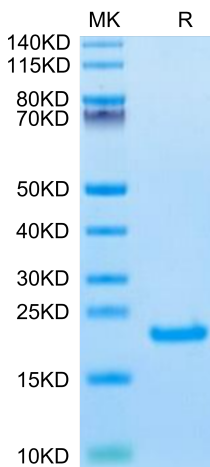
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in 20mM NaAc, 500mM NaCl (pH 5.5). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in 20mM NaAc, 500mM NaCl (pH 5.5).
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days 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  $\gamma$ -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

### Tris-Bis PAGE

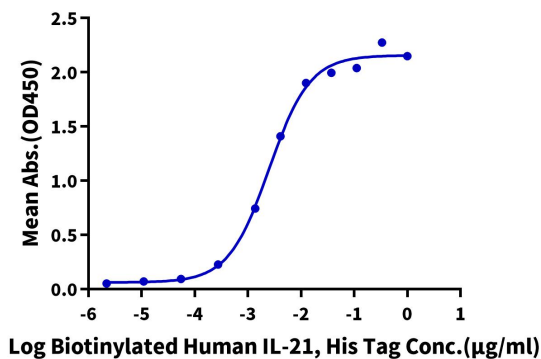


Biotinylated Human IL-21 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

#### Biotinylated Human IL-21, His Tag ELISA

0.05µg Human IL-21R, hFc Tag Per Well



Immobilized Human IL-21R, hFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human IL-21, His Tag with the EC50 of 2.5ng/ml determined by ELISA.