

**Catalog No.: RP03516B** **Recombinant**

Species	Gene ID	Swiss Prot
Human	59067	O9HBE4-1

N-HISPAVI

Interleukin-21: IL-21; Za11□IL21

<b>Source</b> <i>E. coli</i>	<b>Purification</b> ≥ 95 % as determined by SDS- PAGE
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## 18.3 kDa 15-25 kDa

< 1 EU/μg of the protein by LAL method.

Lyophilized from 0.22  $\mu\text{m}$  filtered solution in 20mM NaAc, 500mM NaCl (pH 5.5). Normally 8% trehalose is added as protectant before lyophilization.

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).

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IL21 belongs to the IL-15/IL-21 family. It is a cytokine with immunoregulatory activity. Cytokines are proteinaceous signaling compounds that are major mediators of the immune response. They control many different cellular functions including proliferation, differentiation, and cell survival/apoptosis but are also involved in several pathophysiological processes including viral infections and autoimmune diseases. Cytokines are synthesized under various stimuli by a variety of cells of both the innate (monocytes, macrophages, dendritic cells) and adaptive (T- and B-cells) immune systems. IL21 is expressed in activated CD4-positive T-cells but not in CD8-positive T-cells, B-cells, or monocytes. It may promote the transition between innate and adaptive immunity. IL-21 has been tried as a therapy for alleviating allergic responses. It can significantly decrease pro-inflammatory cytokines produced by T cells in addition to decreasing IgE levels in a mouse model for rhinitis (nasal passage inflammation).

Biotinylated Recombinant Human IL-21 Protein is produced by E. coli expression system. The target protein is expressed with sequence (Gln32-Ser162) of Human IL-21 (NP\_068575.1) fused with His tag and Avi tag at the N-Terminus.

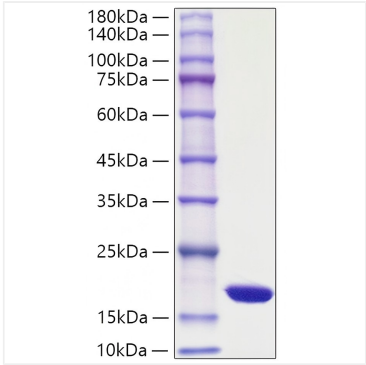
Immobilized Human IL-21R, hFc Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human IL-21, His Tag with the EC50 of 4.7ng/ml determined by ELISA

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

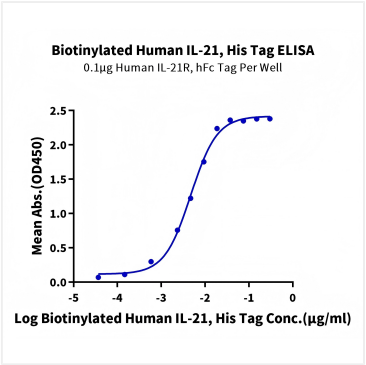
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Biotinylated Recombinant Human IL-21  
Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Human IL-21R, hFc Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human IL-21, His Tag with the EC50 of 4.7ng/ml determined by ELISA .