

Biotinylated Recombinant Human IL-21 Protein

Catalog No.: RP03516B Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 59067 Q9HBE4-1

Tags N-HIS∏AVI

Synonyms

Interleukin-21; IL-21; Za11 IL-21

Product Information

SourcePurificationE. coli≥ 95 % as

determined by SDS-PAGE.

Calculated MW Observed MW

18.3 kDa 15-25 kDa

Endotoxin

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

Formulation

Lyophilized from 0.22 µm filtered solution in 20mM NaAc, 500mM 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, 500mM NaCl (pH 5.5).

Contact

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Background

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).

Basic Information

Description

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.

Bio-Activity

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

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

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

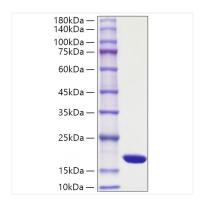
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

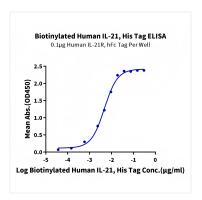
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



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



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