

RP03516B

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Biotinylated Recombinant Human IL-21 Protein

Catalog No.: RP03516B

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
<i>E. coli</i>	59067	Q9HBE4-1

Tags

N-HIS&AVI

Synonyms

Interleukin-21; IL-21; Za11 , IL21

Product Information

Source

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).

Purification

≥ 95 % as determined by SDS-PAGE.

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).

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 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

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

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

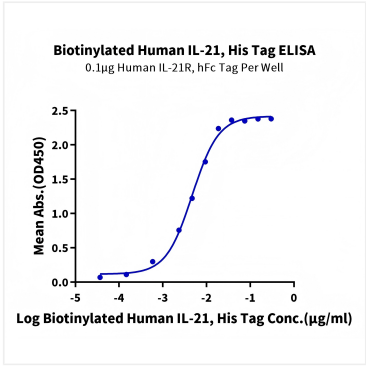
Storage

Store at -20°C
Avoid repeated freeze/thaw cycles.

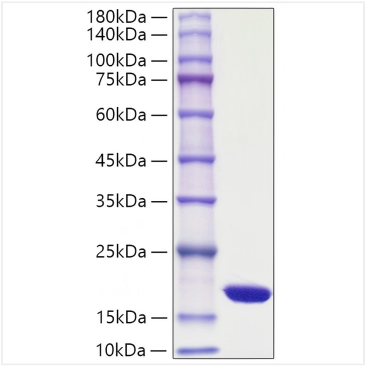
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Immobilized Human IL-21R, hFc Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human IL-21, His Tag with the EC50 of 4.7ng/ml determined by ELISA .



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