Biotinylated Recombinant Human IL-21 Protein

Catalog No.: RP03516B

www.abclonal.com

Sequence Information

Species
Human

Gene ID
59067

Swiss Prot
Q9HBE4-1

Tags
N-HIS&AVI

Synonyms
Interleukin-21, IL-21, Za11， IL21

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
18.3 kDa

Observed MW
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).

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.

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.

Storage
Store at -20℃

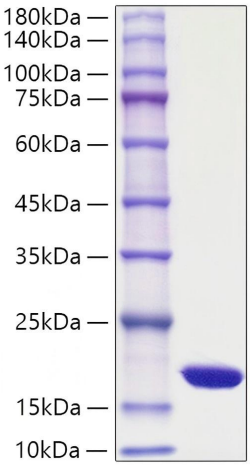
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

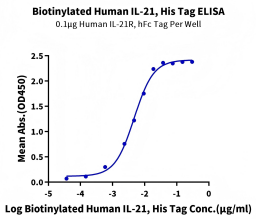
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

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 .