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## 32-12201: Human Interleukin-21

 Gene :
 IL21

 Gene ID :
 59067

 Uniprot ID :
 Q9HBE4

Alternative Name: Za11, Interleukin-21

## **Description**

Source: Genetically modified E.coli.

Predicted MW: Monomer, 15.4 kDa (132 aa)

Interleukin 21 (IL-21) is a member of the common-gamma chain family of cytokines that are involved in immunoregulation. IL-21 is normally expressed by activated CD4+ T cells and is aberrantly expressed in Hodgkin lymphoma cells. The IL-21 receptor (IL-21R) activates the JAK/STAT signaling pathway and is expressed on T, B, and natural killer (NK) cells. Within the B cell lineage, IL-21 is a switch factor regulating IgG1 and IgG3 antibody production. IL-21 also cooperates with IL-4 for the production of multiple antibody classes in B cells. IL-21 has pleiotropic effects on the proliferation, differentiation, and effector functions of B, T, NK, and dendritic cells.

## **Product Info**

**Amount :**  $10 \mu g / 100 \mu g$ 

**Purification:** Reducing and Non-Reducing SDS PAGE at >= 95%

Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium

**Content :** phosphate, pH 7.5

Sterile water at 0.1 mg/mL

Storage condition: Store at -20°C

Amino Acid: MQDRHMIRMR QLIDIVDQLK NYVNDLVPEF LPAPEDVETN CEWSAFSCFQ KAQLKSANTG

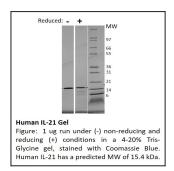
NNERIINVSI KKLKRKPPST NAGRRQKHRL TCPSCDSYEK KPPKEFLERF KSLLQKMIHQ

HLSSRTHGSE DS

## **Application Note**

Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.

Biological Activity was determined by ANBL-6 cell proliferation OR B9 cell proliferation at ED50 <= 2 ng/mL; >= 5.0 x 10^5 units/mg (typical ED50 is < 1 ng/mL) OR ED50 <= 50 ng/mL; >= 2.0 x 10^4 units/mg





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