

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 µg / 100 µg
Purification : Reducing and Non-Reducing SDS PAGE at $\geq 95\%$
Content : Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
Sterile water at 0.1 mg/mL
Storage condition : Store at -20°C
Amino Acid : MQDRHMIRMRLQLIDIVDQLK NYVNDLVPEF LPAPEDVETN CEWSAFSCFQ KAQLKSANTG
NNERIINVSI KKLKRKPPST NAGRRQKHRL TCPSCDSYEK KPPKEFLERF KSLQKMIHQ
HLSRTHGSE 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 $\text{ED}_{50} \leq 2 \text{ ng/mL}$; $\geq 5.0 \times 10^5$ units/mg (typical ED_{50} is $< 1 \text{ ng/mL}$) OR $\text{ED}_{50} \leq 50 \text{ ng/mL}$; $\geq 2.0 \times 10^4$ units/mg



