

Active Recombinant Mouse IL21 Protein

Cat. No. IL21-162M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL21 Protein without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	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.
Bio-activity	B9 cell proliferation, ED50≤50 ng/mL
AA Sequence	MQDRHMIRMQRQLIDIVDQLKNYVNDLVPEFLPAPEDVETNCEWSAFSCFQKAQLKS ANTGNNERIINVSIIKKLRKPPSTNAGRRQKHRLTCPSCDSYEKKPPKEFLERFKSL QKMIHQHLSSRTHGSEDS
Endotoxin	≤1 EUs/μg, Kinetic LAL
Purity	≥95%, Reducing and Non-Reducing SDS PAGE

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Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution:
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature

GENE INFORMATION

Gene Name	IL21 interleukin 21 [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL21
Synonyms	IL21; interleukin 21; interleukin-21; IL-21;
Gene ID	60505
mRNA Refseq	NM_021782
Protein Refseq	NP_068554
UniProt ID	Q9ES17

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