

Active Recombinant Mouse IL21 Protein

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

SPECIFICATION

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| 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 | MQDRHMIRMRLIDIVDQLKNYVNDLVPEFLPAPEDVETNCEWSAFSCFQKAQLKS ANTGNNERIINVSIIKLLKRKPPSTNAGRQKHRLTCPCDSYEKKPPKEFLERFKSL QKMIHQHLSSRTHGSEDS |
| Endotoxin | ≤1 EUs/μg, Kinetic LAL |
| Purity | ≥95%, Reducing and Non-Reducing SDS PAGE |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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

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|------------------------|---|
| 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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