
Mouse IL-21 Recombinant Protein

Catalog Number: 14-8211

Also Known As: Interleukin-21, IL21

RUO: For Research Use Only

Product Information

Contents: Mouse IL-21 Recombinant Protein

 **Catalog Number:** 14-8211

Concentration: 100 ug/ml

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in a sterile environment

Source: E. coli expressed amino acids Pro25-Ser146 of mature mouse IL-21 (accession # NM_021782).


Molecular Mass: The DTT reduced protein migrates as a 15 kDa polypeptide on SDS-PAGE. The non-reduced protein migrates as a 15 kDa polypeptide.

Purity: Greater than 98%, as determined by SDS-PAGE


Endotoxin Level: Less than 0.01 ng/ug cytokine as determined by the LAL assay.

Bioactivity: Measured by dose-dependent induction of proliferation of B9 cell line. The ED50 is typically 300 pg/ml, corresponding to a specific activity of 3 x 10E6 Units/mg.

Formulation: Sterile liquid; 20 mM phosphate, 0.6 M NaCl with 1% BSA, pH 7.0

 **Temperature Limitation:** Store at less than or equal to -70°C.

 **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

Description

Mouse Interleukin-21 (IL-21) is a 146-amino acid protein with 57% identity to the human gene. It contains a 24-amino acid signal peptide and a 4-helix-bundle cytokine domain homologous to IL-2, IL-4 and IL-15. IL-21 stimulates B cell proliferation in an anti-CD40 dependent manner but inhibits B cell proliferation stimulated by IL-4 plus anti-IgM. IL-21 is induced by IL-6 in activated T cells, a process that is dependent on STAT3 but not on ROR-gamma. IL-21 induces Th17 differentiation and suppresses FOXP3 expression, which requires STAT3 and ROR-gamma.

Applications Reported

Recombinant mouse IL-21 is biologically active and has been reported for use in ELISA and bioassay.

Applications Tested

This IL-21 protein has been tested by bioassay, yielding an ED50 of 300 pg/ml, corresponding to a specific activity of approximately 3x10E6 Units/mg.

References

Korn, T. et al. 2007. Nature. 448:484-487

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