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IL 21 Mouse

Catalog #:CYPS-691

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Description: Interleukin-21 Mouse Recombinant produced in E.Coli is a single, non-glycosilated polypeptide chain containing 130 amino acids and having a total molecular mass of 15kDa. The Murine IL-21 is purified by proprietary chromatographic techniques.

Synonyms: Interleukin-21, IL-21, Il21.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Met-His-Lys-Ser-Ser.

Purity: Greater than 95.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation:
Mouse IL-21 was lyophilized from 20mM NaHCO3, pH 8.5.

Stability:
Lyophilized Mouse IL-21 althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Mouse IL21 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:
It is recommended to reconstitute the lyophilized Mouse IL21 in sterile 18M-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Introduction:
IL-21 is produced by CD4+ T cells in response to antigenic stimulation. Its action enhances antigen-specific responses of immune cells. The biological effects of IL-21 include induction of differentiation of T-cells-stimulated B-cells into plasma cells and memory B-cells, stimulation (in conjuction) with IL-4 of IgG production, and induction of apoptotic effects in naive B-cells and stimulated B-cells in the absence of T-cell signaling. Additionally, IL-21 promotes the anti-tumor activity of CD8+ T-cells and NK cells. IL-21 exerts its effect throμgh binding to a specific type I cytokine receptor, IL-21R, which also contains the gamma chain (°C) found in other cytokine receptors including IL-2, IL-4, IL-7, IL-9 and IL-15. The IL-21/IL-21R interaction triggers a cascade of events which includes activation of the tyrosine kinases JAK1 and JAK3, followed by activation of the transcription factors STAT1 and STAT3.

Biological Activity:
The ED50=10 -50 ng/ml, determined by the cell proliferation assay of modified Ba/F3 cells.

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