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IL 2 Rat

Description: Interleukin-2 Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 134 amino acids and having a molecular mass of 17kDa. The IL-2 is purified by proprietary chromatographic techniques.

Synonyms:T-cell growth factor (TCGF), Aldesleukin, Lymphokine, IL-2.

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-Ala-Pro-Thr-Ser.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
The protein (1mg/ml) was lyophilized without any additives.

Stability:
Lyophilized Interleukin-2 althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL2 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 Interleukin 2 in sterile 100mM AcOH not less than 100

Introduction:
IL2 is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which sμggests an essential role of this gene in the immune response to antigenic stimuli.

Biological Activity:
The ED50 as determined by the dose-dependant stimulation of murine CTLL-2 cells is 0.1-0.4 ng/ml corresponding to a specific activity of 2,500,000-10,000,000 units/mg.

References:
Title:Functional Gap Junctions Facilitate Melanoma Antigen Transfer and Cross-Presentation between Human Dendritic Cells.Publication:The Journal of Immunology June 1, 2007 vol. 178 no. 11 6949-6957 Link:http://www.jimmunol.org/content/178/11/6949.full

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