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IL 2 Human

Description: Interleukin-2 Human Recombinant produced in E.Coli is a single, non-glycosylated mutein (variant form) of human IL-2 polypeptide chain containing 134 amino acids and having a molecular mass of 15517 Dalton. Our Interleukin -2 has an Ser substitute for Cysteine at position 126.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 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation:
The protein (1.1mg/ml) was lyophilized after extensive dialysis against 0.17mg sodium monobasic & 0.89mg dibasic sodium phosphate buffer to a pH=7.5.

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 20mM 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 < 0.0645 ng/ml, corresponding to a Specific Activity of 15,500,000IU/mg.

References:

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Title:CD8 Kinetically Promotes Ligand Binding to the T-Cell Antigen Receptor.Publication:Biophysical Journal Volume 89 September 2005 21212133.Link:http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1366714/pdf/2121.pdf

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