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IL 2 Porcine

Catalog #:CYPS-404

For research use only.

Description: Interleukin2 Porcine Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 134 amino acids and having a molecular mass of 15217 Dalton. 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(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation:
The protein (1mg/ml) was lyophilized containing no additives.

Stability:
Lyophilized IL2 althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-2 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 Interferon 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 murine CTLL cells proliferation assay with MTS detection is < 0.1ng/ml, corresponding to a Specific Activity of 10,000,000IU/mg.

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