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Interleukin-2, porcine recombinant (rpIL-2)

Catalog No: 87348
Lot No: XXXXX
Source: *E. coli*
Synonyms: T-cell growth factor (TCGF), Aldesleukin, Lymphokine, IL-2

Background

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 suggests an essential role of this gene in the immune response to antigenic stimuli.

Description

Interleukin-2 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. IL-2 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The protein (1 mg/ml) was lyophilized from a 0.2 µm filtered concentrated solution in 1x PBS, pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized Interferon 2 in sterile 20 mM AcOH not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized IL2, although 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.

Purity

Greater than 96.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

APTSSSTKNT KKQLEPLLLD LQLLLKEVKN YENADLSRML TFKFYMPKQA TELKHLQCLV EELKALEGVL NLGQSKNSDS
ANIKESMNNI NVTVLELKGS ETSFKCEYDD ETVTAVEFLN KWITFCQSIY STLT

Activity

The ED50 as determined by the dose-dependant murine CTLL cells proliferation assay with MTS detection is <0.1 ng/ml, corresponding to a specific activity of 10,000,000 IU/mg.



Usage

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