DATASHEET

Name	IL-2, REC.MOUSE		
Product	Interleukin-2, Recombinant Mouse	Article-No.	40129
Formulation	White powder - (1mg/ml) was lyophilised after carrier free isolation	Storage	Freezer at -20°C Prevent freeze-thaw cycles

Introduction:
Interleukin-2 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 model 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:
Recombinant Mouse Interleukin-2 produced in *Escherichia Coli* is a single, non-glycosylated polypeptide chain containing 149 amino acids and having a molecular mass of 17231 Dalton.
The IL-2 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Purity: > 95.0% (RP-HPLC & SDS-PAGE)

Solubility:
It is recommended to reconstitute the lyophilised rmIL-2 in sterile 100mM AcOH to a concentration of 0.1-1.0 mg/mL to regain full activity, which can then be further diluted to other aqueous solutions.

Stability:
Lyophilised rmIL-2, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rmIL-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).

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Amino acid sequence:
The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Pro-Thr-Ser-Ser.

Biological Activity:
The ED_{50} range=0.1-0.4ng/ml, as determined by the dose-dependent stimulation of mouse CTLL-2 cells.

Protein content:
Protein quantification was carried out by two independent methods:
1. UV spectroscopy at 280 nm using the absorbency value of 0.482 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a calibrated solution of IL-2 as a reference standard.

Usage:
Our products are intended for lab research only. Not for human, animal or diagnostic use.

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