



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Interleukin-2, human recombinant (rHuIL-2)

**Catalog No:** 50442  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** T-cell growth factor (TCGF), Aldesleukin, Lymphokine, IL-2

### Background

IL-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 (IL-4) and interleukin 7 (IL-7). 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 human recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 133 amino acids and having a molecular mass of 15.4 kDa. IL-2 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

The protein was lyophilized from a 0.2 µm filtered concentrated solution (1 mg/ml) in PBS, pH 5.0.

### Solubility

It is recommended to reconstitute the lyophilized Interleukin-2 in sterile distilled water not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized Interleukin-2, 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

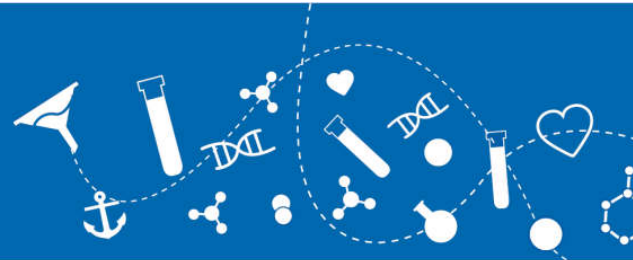
Greater than 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

APTSSSTKKT QLQLEHLLLD LQMILNGINN YKNPKLTRML TFKFYMPKKA TELKHLQCLE EELKPLEEVL NLAQSKNFHL  
RPRDLISNIN VIVLELKGSE TTFMCEYADE TATIVEFLNR WITFCQSIIS TLT

### Activity

The ED50 as determined by the dose-dependant stimulation of murine CTLL-2 cells is < 0.1 ng/ml, corresponding to a Specific Activity of 1x10<sup>7</sup> IU/mg.



#### Usage

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