



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



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-4, mouse recombinant (rmlL-4)

**Catalog No:** 51557  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** BCGF, BCDF, B cell stimulating factor, BSF-1, Lymphocyte stimulatory factor 1, IL-4, MGC79402, Binetrakin, Pitrakinra

### Background

Interleukin-4 is a pleiotropic cytokine produced primarily by activated T lymphocytes, basophils and mast cells. Multiple immune response-modulating functions are performed by IL-4 on a variety of cell types and it has an important role in the regulator of isotype switching, induction of IgE production in B lymphocytes and differentiation of precursor T helper cells. IL-4 binds to both membrane-bound and secreted soluble IL-4 receptors.

### Description

Interleukin-4 mouse recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 120 amino acids and having a molecular mass of 13500 Dalton. IL-4 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

Lyophilized from a 0.2 µm concentrated (1 mg/ml) solution in PBS pH 7.4.

### Solubility

It is recommended to reconstitute the lyophilized Interleukin-4 in sterile 10 mM HAc not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized Interleukin-4, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL4 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

MHIHGCDKNH LREIIGILNE VTGEGTPCTE MDVPNVLTAT KNTTESELVC RASKVLRIFY LKHGKTPCLK KNSSVLMELQ  
RLFRAFRCLE SSISCTMNES KSTSLKDFLE SLKSIMQMDY S

### Activity

The ED50 as determined by the dose-dependant induction of HT-2 cell proliferation is less than 2 ng/ml corresponding to a specific activity of 500,000 IU/mg.



**Usage**

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