



# SZABO SCANDIC

Part of Europa Biosite

## 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-9, mouse recombinant (rmlL-9)

**Catalog No:** 51559  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** P40, HP40, T-cell growth factor p40, IL-9, P40 cytokine

### Background

Factor that is thought to be a regulator of hematopoiesis. It has been shown to enhance the growth of human mast cells and megakaryoblastic leukemic cells as well as murine helper t-cell clones. IL-9 is a glycoprotein with a molecular weight of 32-39 that is derived from T-cells, and maps to human chromosome 5.

### Description

Interleukin-9 mouse recombinant produced in *E. coli* is a single, non-glycosylated single polypeptide chain containing 127 amino acids and having a molecular mass of 14.3kDa. IL-9 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

Lyophilized from a concentrated (1mg/ml) solution 10mM Na<sub>2</sub>PO<sub>4</sub>, pH 7.5.

### Solubility

It is recommended to reconstitute the lyophilized Interleukin-9 in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized Interleukin-9, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-9 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 SDS-PAGE.

### Amino Acid Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Gln-Arg-Cys-Ser.

### Activity

The ED50 as determined by the dose-dependant stimulation of human MO7e cells is <0.5 ng/ml, corresponding to a specific activity of 2,000,000 IU/mg.

### Usage

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