



## Interleukin-9, mouse recombinant (rIL-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 ED<sub>50</sub> 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

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**

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