

## 32-1429: mL 9 Recombinant Protein

**Alternative Name :** P40,HP40,T-cell growth factor p40,IL-9,P40 cytokine.

### Description

Source : Escherichia Coli. 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. The IL-9 is purified by proprietary chromatographic techniques. 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.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 96.0% as determined by SDS-PAGE.
<b>Content :</b>	Lyophilized from a concentrated (1mg/ml) solution 10mM Na <sub>2</sub> PO <sub>4</sub> , pH 7.5.
<b>Storage condition :</b>	Lyophilized Interleukin-9 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL9 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.
<b>Amino Acid :</b>	MQRCSTTWGI RDTNYLIENL KDDPPSKCSC SGNVTSCLCL SVPTDDCTTP CYREGLLQLT NATQKSRLLP VFHRVKRIVE VLKNITCPSF SCEKPCNQTM AGNTMSFLKS LLGTFQKTEM QRQKSRP.

### Application Note

It is recommended to reconstitute the lyophilized Interleukin 9 in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. 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 2,000,000IU/mg.

