

## 32-20432: Recombinant Human IL-9(Discontinued)

**Reactivity :** Human, Mouse

**Alternative Name :** p40 cytokine, T-cell growth factor p40

### Description

**Source:** E.coli IL-9 is an immunoregulatory cytokine produced by IL-2 activated Th2 lymphocytes. IL-9 enhances the proliferation of T lymphocytes, mast cells, erythroid precursor cells and megakaryoblastic leukemia cell lines. Over-expression of IL-9 has been implicated in the pathogenesis of anaplastic lymphoma and Hodgkin's disease. Whereas murine IL-9 can function on human cells, human IL-9 is inactive on mouse cells. Recombinant Human IL-9 is a 14.0 kDa protein of 127 amino acid residues, including 10 cysteine residues that are fully conserved between the human and murine proteins.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Purity: >= 98% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** MQGCPTLAGI LDINFLINKM QEDPASKCHC SANVTSCLCL GIPSDNCTRP CFSERLSQMT NTTMQTRYPL  
IFSRVKKSVE VLKNNKCPYF SCEQPCNQTT AGNALTFLKS LLEIFQKEKM RGMRGKI

### Application Note

The  $ED_{50}$  as determined by the dose-dependent proliferation of human M07e cells was  $\leq 0.2$  ng/ml, corresponding to a specific activity of  $\geq 5 \times 10^6$  units/mg.