

## IL-9, Rat Recombinant

|                            |  |       |
|----------------------------|--|-------|
| <b>CATALOG #:</b>          | 7103-10  | 10 µg |
|                            | 7103-50  | 50 µg |
| <b>ALTERNATE NAMES:</b>    | p40 cytokine, T-cell growth factor p40   |       |
| <b>SOURCE:</b>             | E.coli   |       |
| <b>PURITY:</b>             | ≥ 98% by SDS-PAGE gel and HPLC analyses  |       |
| <b>MOL. WEIGHT:</b>        | ~14.3 kDa  |       |
| <b>ENDOTOXIN LEVEL:</b>    | < 0.1 ng/µg of protein (<1EU/µg).  |       |
| <b>FORM:</b>               | Lyophilized  |       |
| <b>FORMULATION:</b>        | Sterile filtered through a 0.2 micron filter. Lyophilized with no additives.   |       |
| <b>STORAGE CONDITIONS:</b> | Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles. |       |

**RECONSTITUTION:**

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

**DESCRIPTION:**

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. Overexpression of IL-9 has been implicated in the pathogenesis of anaplastic lymphoma and Hodgkin's disease. Recombinant rat IL-9 is a 14.3 kDa protein of 127 amino acid residues including 10 cysteine residues which are fully conserved between the human and murine proteins.

**BIOLOGICAL ACTIVITY:**

Measured by its ability to enhance MC/9 cell proliferation.

**AMINO ACID SEQUENCE:**

MQRCSTSWG I QHTSYLIEN L KDDPSSKCS C SANVTSCLCL PIPSDDCTTP  
CFQEGMSQVT NATQQSKFSP FFRVKRIVE TLKSNKCQFF SCEKPCNQTT  
AGNTVSFLKS LLKTFQKTEV QVQRSRA

**RELATED PRODUCTS:**

- Human Cell<sup>EXP</sup> Human Recombinant IL-9 (Cat # 6465-10, -50)
- IL-9, human recombinant (Cat # 4152-10, -50, -1000)
- IL-9, murine recombinant (Cat # 4153-10, -1000)

**FOR RESEARCH USE ONLY! Not to be used in humans.**