

IL-9, Rat Recombinant

CATALOG #:	7103-10	10 µg
	7103-50	50 µg
ALTERNATE NAMES:	p40 cytokine, T-cell growth factor p40	
SOURCE:	E.coli	
PURITY:	≥ 98% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	~14.3 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/µg of protein (<1EU/µg).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized with no additives.	
STORAGE CONDITIONS:	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 QHTSYLIENL KDDPSSK CSC SANVT SCLCL PIPSD DCTTP
CFQEGMSQVT NATQQSKFSP FFRVKRIVE TLKSNKQFF SCEKPCNQTT
AGNTVSFLKS LLKTFQKTEV QVQRSRA

RELATED PRODUCTS:

- Human Cell^{EXP} 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.