

**RMCM026**

Recombinant IL-9 (Interleukin-9), Mouse , AF



5ug;20ug;100ug;500ug;

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### **Synonym/Alternative**

#### **name(s):**

p40 cytokine, T-cell growth factor p40

#### **Activity:**

Measure by its ability to induce proliferation in MO7e cells.

The ED50 for this effect is <0.2 ng/mL.

The specific activity of recombinant mouse IL-9 is > 5 x 10<sup>6</sup> IU/mg.

#### **Protein Description:**

Interleukin 9, also known as IL-9, is a pleiotropic cytokine (cell signalling molecule) belonging to the group of interleukins. IL-9 is produced by variety of cells like mast cells, NKT cells, Th2, Th17, Treg, ILC2, and Th9 cells in different amounts. Among them, Th9 cells are regarded as the major CD4+ T cells that produce IL-9.

**Protein Accession :** P15247.1

**Gene ID :** 16198

#### **Expression Sequence:**

QRCSTTWGIRDNTNYLIENLKDPPSKCSCSGNVTSCCLSVPTDDCTTPCYREGLLQLTNATQKSRLLPVHRVKRIVEVLKNITCPSFSCE  
KPCNQTMAGNTLSFLKSLGTFQKTEMQRQKSRP with polyhistidine tag at the N-terminus.

**Fusion tag :** His-tag?at?the?N-terminus

**Species :** Mouse

**Reactivity :** Mouse

**Expression Host :** Escherichia coli

**Source :** E. coli

#### **Purity/method:**

>98% as determined by SDS-PAGE. Ni-NTA chromatography

#### **Endotoxin level:**

<0.1 EU per 1 µg of the protein by the LAL method.

**Calculated Molecular Weight :** 14.97 kDa

#### **Formulation:**

The protein was lyophilized from a solution containing 1X PBS, pH 7.4.

#### **Reconstitution:**

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

**Shipping :** Blue Ice

#### **Stability and Storage:**

Lyophilized protein should be stored at -20°C for 1 year.

Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or

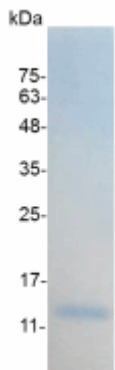
stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

**Category :** Cytokines

**Application :** Cell culture, Elisa

**Image:**



SDS- PAGE analysis of recombinant mouse IL-9