

Recombinant Murine Interleukin-9 (rm IL-9)

Synonyms: P40, HP40, T-cell growth factor p40, P40 cytokine.

Introduction: rh IL-9 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.

Description: Recombinant murine IL-9 produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 127 amino acids and having a molecular mass of 14.3kDa. The IL-9 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: The protein was lyophilized from a concentrated from a concentrated (1mg/ml) solution 10mM Na₂PO₄, pH 7.5. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rm IL-9 in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rmIL-9 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm IL-9 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.

Purity: Greater than 96.0% as determined by SDS-PAGE.

Amino Acid Sequence: MQRCSTTWGI RDTNYLIENL KDDPPSKCSC SGNVTSCCL SVPTDDCTTP
CYREGLLQLT NATQKSRLLP VFHRVKRIVE VLKNITCPSF SCEKPCNQTM AGNTMSFLKS LLGTFQKTEM
QRQKSRP

Biological Activity: The ED₅₀ as determined by the dose-dependant stimulation of human MO7e cells is <0.5 ng/ml, corresponding to a specific activity of 2 x 10⁶ IU/mg.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	12340092
<i>medium</i>	10 µg	Cat.N°	12340093
<i>large</i>	50 µg	Cat.N°	12340095

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