

Recombinant Mouse IL9 protein

Cat. No. IL9-78M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL9 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	126
Description	The protein encoded by this gene is a cytokine that acts as a regulator of a variety of hematopoietic cells. This cytokine stimulates cell proliferation and prevents apoptosis. It functions through the interleukin 9 receptor (IL9R), which activates different signal transducer and activator (STAT) proteins and thus connects this cytokine to various biological processes. The gene encoding this cytokine has been identified as a candidate gene for asthma. Genetic studies on a mouse model of asthma demonstrated that this cytokine is a determining factor in the pathogenesis of bronchial hyperresponsiveness.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine TS1 cells is less than 0.02 ng/ml, corresponding to a specific activity of $> 5.0 \times 10^7$ IU/mg.
Molecular Mass	Approximately 14.2 kDa, a single non-glycosylated polypeptide chain containing 126 amino acids.

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AA Sequence	QRCSTTWGIRDNTNYLIENLKDDPPSKCSCSGNVTSCCLSVPTDDCTTPCYREGLLQ LTNATQKSRLLPVFHRVKRIVEVLKNITCPSFSCEKPCNQTMAGNTLSFLKSLLGTFQ KTEMQRQKSRP
Endotoxin	Less than 0.1 EU/μg of rMuLL-9 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	IL9
Official Symbol	IL9
Synonyms	IL9; interleukin 9; interleukin-9; cytokine P40; T-cell growth factor P40; P40; IL-9;
Gene ID	16198
mRNA Refseq	NM_008373

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Protein Refseq	NP_032399
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UniProt ID	P15247
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