

Recombinant Mouse Il9 protein

Cat. No. II9-78M 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	QRCSTTWGIRDNTNYLIENLKDDPPSKCSCSGNVTSCCLCLSVPTDDCTTPCYREGLLQ LTNATQKSRLLPVHRVVRIVEVLKNITCPSFSCEKPCNQTMAGNTLSFLKSLLGTFQ 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

UniProt ID P15247

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