

## Recombinant Human IL9 protein

Cat. No. IL9-67H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human IL9 protein was expressed in Escherichia coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	126
<b>Description</b>	<p>Interleukin-9 (IL-9) is encoded by the IL9 gene and produced by T-cells and specifically by CD4+ helper cells. IL-9 was originally identified as a cytokine found in the conditioned medium of a human T cell leukemia virus type I (HTLV1) transformed T cell line. It functions through the IL-9 receptor, which activates different signal transducer and activator (STAT) proteins and thus connects this cytokine to various biological processes. IL-9 can support the growth of IL-2 independent and IL-4 independent helper T-cells. Human IL-9 has approximately 56 % amino acid sequence identity with murine IL-9. 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 hyper-responsiveness.</p>
<b>Form</b>	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
<b>Bio-activity</b>	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using human MO7e cells is less than 0.2 ng/ml, corresponding to a specific activity of > 5.0 ×

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	10 <sup>6</sup> IU/mg.
<b>Molecular Mass</b>	Approximately 14.1 kDa, a single non-glycosylated polypeptide chain containing 126 amino acids.
<b>AA Sequence</b>	QGCPTLAGILDINFLINKMQEDPASKCHCSANVTSCCLGLGIPSDNCTRPCFSERLSQ MTNTTMQTRYPLIFSRVKKSVEVLKNNKCPYFSCEQPCNQTTAGNALTFLKSLEIF QKEKMRGMRGKI
<b>Endotoxin</b>	Less than 1 EU/g of rHuIL-9 as determined by LAL method.
<b>Purity</b>	>95% by SDS-PAGE and HPLC analysis.
<b>Storage</b>	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.
<b>Reconstitution</b>	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

<b>Gene Name</b>	IL9
<b>Official Symbol</b>	IL9
<b>Synonyms</b>	IL9; interleukin 9; interleukin-9; homolog of mouse T cell and mast cell growth factor

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40; HP40; IL 9; P40; p40 cytokine; p40 T cell and mast cell growth factor; T cell growth factor p40; cytokine P40; T-cell growth factor p40; p40 T-cell and mast cell growth factor; IL-9;

**Gene ID** [3578](#)

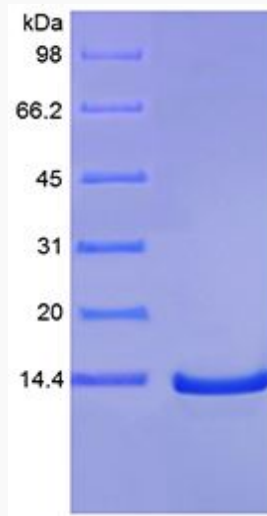
**mRNA Refseq** [NM\\_000590](#)

**Protein Refseq** [NP\\_000581](#)

**MIM** [146931](#)

**UniProt ID** [P15248](#)

**SDS-PAGE of IL9-67H**



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