

## Recombinant Human IL9, GST-tagged

Cat. No. IL9-14214H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human IL9 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	31-144a.a.
<b>Description</b>	<p>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.</p>
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

### GENE INFORMATION

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<b>Gene Name</b>	IL9 interleukin 9 [ Homo sapiens ]
<b>Official Symbol</b>	IL9
<b>Synonyms</b>	IL9; interleukin 9; interleukin-9; homolog of mouse T cell and mast cell growth factor 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;
<b>Gene ID</b>	3578
<b>mRNA Refseq</b>	NM_000590
<b>Protein Refseq</b>	NP_000581
<b>MIM</b>	146931
<b>UniProt ID</b>	P15248
<b>Chromosome Location</b>	5q31-q35
<b>Pathway</b>	Asthma, organism-specific biosystem; Asthma, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; IL-9 Signaling Pathway, organism-specific biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem;
<b>Function</b>	cytokine activity; growth factor activity; interleukin-9 receptor binding;

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