

Active Recombinant Human IL9 Protein

Cat. No. IL9-230I Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL9 Protein without tag was expressed in CHO.
Species	Human
Source	CHO
Description	<p>Interleukin 9, also known as IL9, is a cytokine (cell signalling molecule) belonging to the group of interleukins. The protein encoded by this gene is a cytokine produced by T-cells and specifically by CD4+ helper cells 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>
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 1 ng/mL, measured in a cell proliferation assay using MO7e cells, corresponding to a specific activity of > 1 × 10 ⁶ units/mg.
Molecular Mass	25-40 kDa, observed by non-reducing SDS-PAGE.
AA Sequence	QGCPTLAGILDINFLINKMQEDPASKCHCSANVTSCCLGLIPSDNCTRPCFSERLSQ

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MTNTTMQTRYPLIFSRVKKSVEVLKNNKCPYFSCEQPCNQTTAGNALTLFLKSLEIF
QKEKMRGMRGKI

Endotoxin < 0.2 EU/μg, determined by LAL method.

Purity > 95% as analyzed by SDS-PAGE and HPLC.

Storage Lyophilized recombinant human Interleukin 9 (IL-9) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhIL-9 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.

Storage Buffer Lyophilized after extensive dialysis against PBS.

Reconstitution Reconstituted in ddH₂O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name [IL9 interleukin 9 \[Homo sapiens \]](#)

Official Symbol [IL9](#)

Synonyms 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;

Gene ID [3578](#)

mRNA Refseq [NM_000590](#)

Protein Refseq [NP_000581](#)

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MIM	146931
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UniProt ID	P15248
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