

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	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.
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	QGCPTLAGILDINFLINKMQEDPASKCHCSANVTSCCLGLGPSDNCTRPCFSERLSQ

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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 ddH ₂ O 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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