Active Recombinant Human Il9, HIgG1 Fc-tagged

Cat. No. Il9-002H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human IL-9 (AAH66285.1)(Gln19-Ile144) is fused to the N-terminus of the Fc region of human IgG1was expressed in CHO cell.
Species	Human
Source	CHO
ProteinLength	19-144 a.a.
Description	The protein encoded by this gene is a cytokine that acts as a regulator of a variety of hematopoietic cells. Thiscytokine 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 cytokineto various biological processes. The gene encoding this cytokine has been identified as a candidate gene forasthma. Genetic studies on a mouse model of asthma demonstrated that this cytokine is a determining factor in thepathogenesis of bronchial hyperresponsiveness.
Form	Lyophilized from 0.2μm-filtered solution in PBS.
Bio-activity	Measured in a cell proliferation assay.
Molecular Mass	40KDa (monomer)
AA Sequence	Gln19-Ile144

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Endotoxin	<0.06 eu/μg="" as="" determined="" by="" lal="" test.="">
Purity	>98%, by SDS-PAGE under reducing conditions.
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Reconstitution	Reconstitute at 100μg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

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
MIM	146931
UniProt ID	P15248

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Chromosome Location	5q31-q35
Pathway	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;
Function	cytokine activity; growth factor activity; interleukin-9 receptor binding;

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