Recombinant Human IL9, His-tagged

Cat. No. IL9-28162TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human IL9 with His tag produced in the endosperm tissue of barley grain ; 143 amino acids with tag, Predicted MWt 16.2 kDa.
Species	Human
Description	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.
Conjugation	HIS
Biological activity	Bioactivity is assayed by measuring the dose dependent effect of Human IL9 on proliferation of murine TS1h9RA3 cell line, transfected with Human IL9 receptor (Renauld & Van Snick, Curr. Prot. in Immunol.2002). The ED50 for this batch is 120 pg/ml.
Form	Lyophilised:Reconstitute the lyophilized protein in sterile water, to a concentration of no less than 100 µg/ml. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

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Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: PBS
Storage	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C.
Sequence Similarities	Belongs to the IL-7/IL-9 family.
Full Length	Full L.

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;
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;
Function	cytokine activity; growth factor activity; interleukin-9 receptor binding;

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