# IL9 (Human) Recombinant Protein

Catalog # P8310 Size 2 x 10 ug

## Specification

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|---|---|
| **Product Description** | Human IL9 (P15248, 19 a.a. - 144 a.a.) partial recombinant protein including an 18 a.a. signal peptide (1-18 aa) with His tag at C-terminus expressed in Sf9 cells. |
| **Sequence** | MLLAMVLTSALLLCSVAGQGCPTLAGILDINFLINKMQEDPASKCHCSANVTSCLCLGIPSDNCTR PCFSERLSQMTNTTMQTRYPLIFSRVKKSVEVLKNNKCPYFSCEQPCNQTTAGNALTFLKSLLEIF QKEKMRGMRGKIHHHHHH |
| **Host** | insect |
| **Theoretical MW (kDa)** | 14.5 |
| **Form** | Liquid |
| **Preparation Method** | Sf9 cell expression system |
| **Purity** | > 90% by SDS-PAGE |
| **Recommend Usage** | Biological Activity<br>SDS-PAGE<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS pH 7.4 (10% glycerol) |
| **Storage Instruction** | Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing. |

## Applications

- SDS-PAGE

## Gene Info — IL9

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|---|---|
| **Entrez GeneID** | 3578 |

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|---|---|
| **Protein Accession#** | P15248 |
| **Gene Name** | IL9 |
| **Gene Alias** | HP40, IL-9, P40 |
| **Gene Description** | interleukin 9 |
| **Omim ID** | 146931 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | 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. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000159423\|T-cell growth factor p40\|homolog of mouse T cell and mast cell growth factor 40\|p40 T-cell and mast cell growth factor\|p40 cytokine |

## Pathway

- Asthma
- Cytokine-cytokine receptor interaction
- Jak-STAT signaling pathway

## Disease

- Asthma
- Atherosclerosis
- Berylliosis
- Brain Ischemia
- Bronchial Hyperreactivity
- Bronchiolitis
- Cardiovascular Diseases

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- Celiac Disease
- Chlamydia Infections
- Chorioamnionitis
- Chronic Disease
- Constriction
- Coronary Artery Disease
- Diabetes Mellitus
- Edema
- Fetal Membranes
- Food Hypersensitivity
- Genetic Predisposition to Disease
- Hematologic Diseases
- Hodgkin Disease
- Hypersensitivity
- Hypertension
- Infant
- Inflammation
- Lymphoma
- Lymphoproliferative Disorders
- Migraine Disorders
- Multiple Myeloma
- Multiple Sclerosis
- Obstetric Labor
- Occupational Diseases
- Osteoporosis
- Pre-Eclampsia

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- Premature Birth
- Recurrence
- Respiratory Hypersensitivity
- Respiratory Sounds
- Respiratory Syncytial Virus Infections
- Schizophrenia
- Stroke
- Trachoma
- Waldenstrom Macroglobulinemia
- Werner syndrome

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