

## Interleukin-9 Active Protein | IL 9 active protein

Recombinant Human Interleukin-9

|                              |                       |
|------------------------------|-----------------------|
| CATALOG #<br><b>AAA38171</b> | HOST<br><b>E Coli</b> |
|------------------------------|-----------------------|

### PRODUCT SYNONYMS

Interleukin-9; Recombinant Human Interleukin-9; IL 9 Human; Interleukin-9 Human Recombinant; P40; HP40; T-cell growth factor p40; IL-9; P40 cytokine; IL 9 active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                           |
| Purity/Purification     | Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.                                                                                                                                                                                                                                                                          |
| Form/Format             | Lyophilized from a concentrated (1mg/ml) solution containing 10mM Na2PO4, pH 7.5.<br>Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                   |
| Sequence                | MQGCPTLAGI LDINFLINKM QEDPASKCHC SANVTSCLCL GIPSDNCTRP CFSERLSQMT NTTMQTRYPL<br>IFSRVKKSVE VLKNNKCPYF SCEQPCNQTT AGNALTLKLS LLEIFQKEKM RGMRGKI                                                                                                                                                                                                                   |
| Sequence Length         | 144                                                                                                                                                                                                                                                                                                                                                              |
| Solubility              | It is recommended to reconstitute the lyophilized Interleukin-9 in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                              |
| Biological Activity     | The ED50 as determined by the dose-dependant proliferation of human MO7e cells is < 0.5-0.7ng/ml.                                                                                                                                                                                                                                                                |
| Preparation and Storage | Lyophilized Interleukin-9 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution IL9 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. |

### ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| Related Product Information for IL 9 active protein | <p><b>Description:</b> Interleukin-9 Human Recombinant produced in E Coli is a single, non-glycosylated single polypeptide chain containing 127 amino acids and having a molecular mass of 14,004 Dalton. The IL-9 is purified by proprietary chromatographic techniques.</p> <p><b>Introduction:</b> Factor that is thought to be a regulator of hematopoiesis. It has been shown to enhance the growth of human mast cells and megakaryoblastic leukemic cells as well as murine helper t-cell clones. IL-9 is a glycoprotein with a molecular weight of 32-39 that is derived from T-cells, and maps to human chromosome 5.</p> |
| Product Categories/Family for IL 9 active protein   | Cytokines and Growth Factors; Cytokines; Interleukin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

### NCBI AND UNIPROT INFORMATION

|                           |             |
|---------------------------|-------------|
| NCBI GI #                 | 10834980    |
| NCBI GeneID               | 3578        |
| NCBI Accession #          | NP_000581.1 |
| NCBI GenBank Nucleotide # | NM_000590.1 |
| UniProt Accession #       | P15248      |

|                                         |                                                                                                                                                                     |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Weight</b>                 | 15,909 Da                                                                                                                                                           |
| <b>NCBI Official Full Name</b>          | interleukin-9                                                                                                                                                       |
| <b>NCBI Official Synonym Full Names</b> | interleukin 9                                                                                                                                                       |
| <b>NCBI Official Symbol</b>             | IL9                                                                                                                                                                 |
| <b>NCBI Official Synonym Symbols</b>    | P40; HP40; IL-9                                                                                                                                                     |
| <b>NCBI Protein Information</b>         | interleukin-9; T-cell growth factor p40; cytokine P40; homolog of mouse T cell and mast cell growth factor 40; p40 T-cell and mast cell growth factor; p40 cytokine |
| <b>UniProt Protein Name</b>             | Interleukin-9                                                                                                                                                       |
| <b>UniProt Gene Name</b>                | <b>IL9</b>                                                                                                                                                          |
| <b>UniProt Synonym Gene Names</b>       | IL-9                                                                                                                                                                |
| <b>UniProt Entry Name</b>               | IL9_HUMAN                                                                                                                                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/e-coli-il-9-active-protein/interleukin-9/38171>