

## Recombinant Mouse Il3 protein

**Cat. No.** Il3-09M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b> | Recombinant Mouse Il3 protein was expressed in Escherichia coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 134                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | <p>Interleukin-3 (IL-3) is a type of biological signal (cytokine) which is encoded by the IL-3 gene located on chromosome 5 and produced primarily by activated T cells beside human thymic epithelial cells, activated murine mast cells, murine keratinocytes and neurons/astrocytes. The protein acts in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. In addition, it exerts its biological activities through binding to interleukin-3 receptors included <math>\alpha</math> and <math>\beta</math> subunits. The Mouse IL-3 is different from human IL-3 and contains 140 amino acids residues. Specifically, mouse and human IL-3 share low homology and have not cross species activity.</p> |
| <b>Form</b>             | Lyophilized from a 0.2 $\mu$ m filtered solution in PBS, pH 7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Bio-activity</b>     | Fully biologically active when compared to standard. The ED50 as determined by the dose-dependent stimulation of the proliferation of murine M-NFS-60 cells is less than 0.05 ng/ml, corresponding to a specific activity of $> 2 \times 10^7$ IU/mg.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b>   | Approximately 14.8 kDa globular protein containing 134 amino acid residues.                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | DTHRLTRLNCSSIVKEIIGKLPEPELKTDDEGPSLRNKSFRRVNLSKFVESQGEVDP<br>EDRYVIKSNLQKLNCLPTSANDSALPGVFIRDLDLDFRKKLRFYMVHLNDLETVLTSR<br>PPQPASGSVSPNRGTVEC                                                                                                                                                                                                                                               |
| <b>Endotoxin</b>        | Less than 1 EU/g of rMuL-3 as determined by LAL method.                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | >98% by SDS-PAGE and HPLC analysis.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>          | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.                                                                                             |
| <b>Reconstitution</b>   | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions. |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Gene Name</b>        | IL3                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Official Symbol</b>  | IL3                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>         | IL3; interleukin 3; interleukin-3; mast cell growth factor; P-cell-stimulating factor; hematopoietic growth factor; multipotential colony-stimulating factor; BPA; PSF; HCGF; IL-3; MCGF; Csfmu;                                                                                                                                                                                            |

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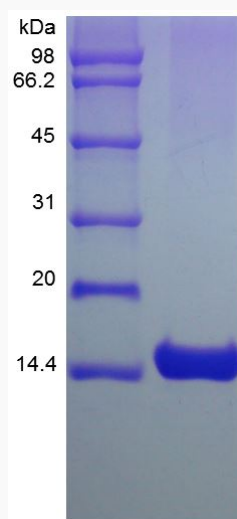
Gene ID 16187

mRNA Refseq NM\_010556

Protein Refseq NP\_034686

UniProt ID P01586

SDS-PAGE of II3-09M



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