

Recombinant Mouse IL3 protein

Cat. No. IL3-09M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse IL3 protein was expressed in Escherichia coli.

Species Mouse

Source E.coli

ProteinLength 134

Description 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 α and β 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.

Form Lyophilized from a 0.2 μ m filtered solution in PBS, pH 7.4.

Bio-activity 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	Approximately 14.8 kDa globular protein containing 134 amino acid residues.
AA Sequence	DTHRLTRTLNCSSIVKEIIGKLPPELKTDDDEGPSLRNKSFRRVNLSKFVESQGEVDP EDRYVIKSNLQKLNCLPTSANDSALPGVFIRDLDLDFRKKLRFYMVHLNDLETVLTSR PPQPASGSVSPNRGTVEC
Endotoxin	Less than 1 EU/g of rMuL-3 as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analysis.
Storage	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.
Reconstitution	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.

GENE INFORMATION

Gene Name	IL3
Official Symbol	IL3
Synonyms	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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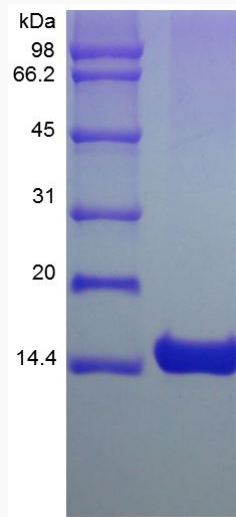
Gene ID 16187

mRNA Refseq NM_010556

Protein Refseq NP_034686

UniProt ID P01586

SDS-PAGE of I13-09M



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