

Recombinant Rat Il3 protein

Cat. No. Il3-576R Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Rat Il3 protein was expressed in Escherichia coli.

Species Rat

Source E.coli

ProteinLength 144

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. It exerts its biological activities through binding to Interleukin-3 receptors included α and β subunits, but sequence analysis revealed a number of features indicative of the presence of only one β -subunit in the rat. Interleukin-3 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. Furthermore, rat and human IL-3 share low homology and have not cross species activity.

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

Bio-activity Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine MC-9 cells is less than 10 ng/ml, corresponding to a specific activity of $> 1.0 \times 10^5$ 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 16.3 kDa, a single non-glycosylated polypeptide chain containing 144 amino acids.
AA Sequence	MISDRGSDAHLLRLDCRTIALEILVKLPYPQVSGLNNSDDKANLRNSTLRRVNLDE FLKSQEEFDSQDTTDDIKSKLQKLKCCIPAAASDSVLPGVYNKDLDDFKKLRFYVIHL KDLQPVSVSRPPQPTSSSDNFRPMTVEC
Endotoxin	Less than 1 EU/g of rRtIL-3 β as determined by LAL method.
Purity	>95% 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 \leq -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	IL3
Official Symbol	IL3
Synonyms	Hematopoietic Growth Factor, MCGF, Multipotential Colony-stimulating Factor, P-cell-stimulating Factor.

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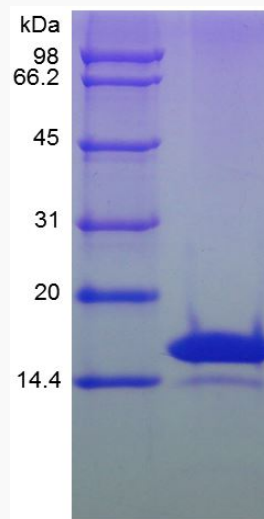
Gene ID 24495

mRNA Refseq NM_031513

Protein Refseq NP_113701

UniProt ID P97688

SDS-PAGE of I13-576R



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