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 0.2μm 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 > 1.0×10^5 IU/mg.

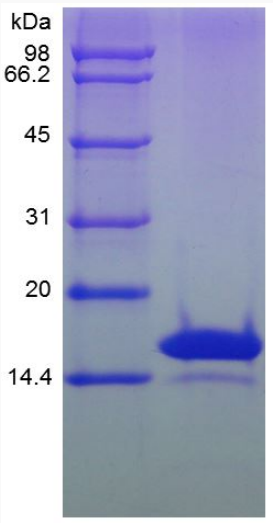
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Molecular Mass	Approximately 16.3 kDa, a single non-glycosylated polypeptide chain containing 144 amino acids.
AA Sequence	MISDRGSDAHHLLRTLDCRTIALEILVKLPYPQVSGLNNSDDKANLRNSTLRRVNLDE FLKSQEEFDSQDTTDIKSKLQKLKCCIPAAASDSVLPGVYNKDLDDFKKKLRFYVIHL KDLQPVSVSRPPQPTSSSDNFRPMTVEC
Endotoxin	Less than 1 EU/μg of rRtIL-3β 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 ≤-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 Il3-576R	

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