Recombinant Rhesus IL3 protein

Cat. No. IL3-539R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rhesus IL3 protein was expressed in Escherichia coli.
Species	Rhesus macaque
Source	E.coli
ProteinLength	124
Description	Interleukin-3 (IL-3) is an interleukin, 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. The rhesus macaque IL-3 reported to be a monomer, as it is known, contains 124 amino acids residues which is a single non-glycosylated polypeptide. Specifically, recombinant rhesus macaque, human and murine IL-3 share low homology.
Form	Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4, 5 % trehalose.
Bio-activity	Assay #1: Fully biologically active when compared to standard. The ED50 as determined by the dose-dependent stimulation of the proliferation of murine NFS-60 cells is less than 5.0 ng/ml, corresponding to a specific activity of > 2×10^5 IU/mg. Assay #2: The ED50 as determined by a cell proliferation assay using human TF-1

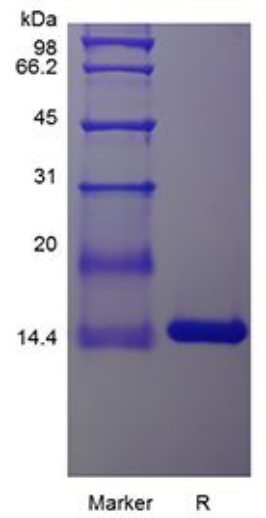
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	cells is less than 0.05 ng/ml, corresponding to a specific activity of > 2.0 × 10^5 IU/mg.
Molecular Mass	Approximately 14.0 kDa, a single non-glycosylated polypeptide chain containing 124 amino acids.
AA Sequence	APMTQTTSLKTSWAKCSNMIDEIITHLNQPPLPSPDFNNLNEEDQTILVEKNLRRSNL EAFSKAVKSLQNASAIESILKNLPPCLPMATAAPTRPPIRITNGDRNDFRRKLKFYLKT LENEQAQ
Endotoxin	Less than 1 EU/μg of rRhIL-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	Hematopoietic Growth Factor, MCGF, Multipotential Colony-stimulating Factor, P-cell-

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	stimulating Factor
Gene ID	706946
mRNA Refseq	NM_001101734.1
Protein Refseq	NP_001095204.1
UniProt ID	P25140
SDS-PAGE of IL3-539R	

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