

Active Recombinant Rat IL-3 β Protein

Cat. No. IL3-170R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat IL-3 β Protein without tag was expressed in E. coli.
Species	Rat
Source	E.coli
Description	Interleukin 3 beta (IL-3 β) is a cytokine that is produced by activated T cells and mast cells. IL-3 β induces the differentiation of hematopoietic stem cells into myeloid precursor cells, such as erythrocyte, megakaryocyte, granulocyte, monocyte, and dendritic cells. IL-3 β also functions in the nervous system and is important during the B-1 cell regulation of chronic inflammatory diseases.
Bio-activity	NFS-60 cell proliferation, ED50 $\leq$ 10 ng/mL
Molecular Mass	Monomer, 16.3 kDa (with 144 amino acids)
AA Sequence	MISDRGSDAHLLRLDCRTIALEILVKLPYPQVSGLNNSDDKANLRNSTLRRVNLDE FLKSQEEFDSQDTTDDIKSKLQKLKCCIPAAASDSVLPGVYNKDLDDFKKKLRFYVIHL KDLQPVSVSRPPQPTSSSDNFRPMTVEC
Endotoxin	$\leq$ 1 EUs/ μ g, Kinetic LAL (50% confidence)
Purity	$\geq$ 95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied.

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	1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	IL3 interleukin 3 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	IL3
Synonyms	IL3; interleukin 3; interleukin-3; IL-3; MCGF; mast cell growth factor; P-cell-stimulating factor; hematopoietic growth factor; multipotential colony-stimulating factor;
Gene ID	24495
mRNA Refseq	NM_031513
Protein Refseq	NP_113701

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UniProt ID

P04823

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