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IL3 Recombinant Rat Interleukin-3 beta

Catalog No.	CS276A CS276B CS276C	Quantity:	5 μg 20 μg 1 mg
Alternate Names:	IL-3, MCGF, P-cell-stimulating factor, Hematopoietic growth factor, interleukin-3, Mast cell growth factor, Multipotential colony-stimulating factor		
Description:	Interleukin-3 (IL-3) is a hematopoietic growth factor that promotes the survival, differentiation and proliferation of committed progenitor cells of the megakaryocyte, granulocyte-macrophage, erythroid, eosinophil, basophil and mast cell lineages. Produced by T cells, mast cells and eosinophils, IL-3 enhances thrombopoieses, phagocytosis, and antibody-mediated cellular cytotoxicity. Its ability to activate monocytes suggests that IL-3 may have additional immunoregulatory roles. Many of the IL-3 activities depend upon co-stimulation with other cytokines. IL-3 is species-specific, variably glycosylated cytokine.		
	Rat IL-3 is a 26 kDa, variably helix family of hematopoietic of hematopoieticrelated cells. The is IL3 β and is synthesized as a and a 142 aa mature segment for a three amino acid (Tyr-Pro- considered the most common disulfide bonds and two poten	1 26 kDa, variably glycosylated monomeric polypeptide that belongs to the α of hematopoietic cytokines. IL-3 has pleiotrophic activies on a number of ticrelated cells. The rat molecule has two alternate splice forms. The first form is synthesized as a 169 aa precursor that contains a 27 aa signal sequence a mature segment. The second form is IL3α and is identical to IL 3β except amino acid (Tyr-Pro-Gln) deletion at positions 56-58. The beta form is the most common. Each form has an α helical structure with two intrachain nds and two potential N-linked glycosylation sites.	
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.		
Gene ID:	24495		
Source:	E. coli		
Molecular Weight:	Approximately 16.3 kDa, a sin amino acids.	gle non-glycosylated polype	ptide chain containing 144
Formulation:	Lyophilized from a 0.2 μ m filte	m filtered concentrated solution in PBS, pH 7.4.	
Purity:	>95% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	Less than 1 EU/µg of rRtIL-3 β as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. The ED_{50} determined by a cell proliferation assay using murine M-NFS-60 cells is less than 10 ng/ml, corresponding to a specific activity of >1×10 ⁵ IU/mg.		



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Amino Acid Sequence:	MISDRGSDAH HLLRTLDCRT IALEILVKLP YPQVSGLNNS DDKANLRNST		
	LRRVNLDEFL KSQEEFDSQD TTDIKSKLQK LKCCIPAAAS DSVLPGVYNK		
	DLDDFKKKLR FYVIHLKDLQ PVSVSRPPQP TSSSDNFRPM TVEC		
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the content 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°C. Further dilutions should be made in appropriot buffered solutions.		
Storage & Stability:	This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for		

Init storage. Upon reconstitution, the preparation is stable for up to one week at 2 -4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. Avoid repeated freeze/thaw cycles.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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