

IL3

Recombinant Canine Interleukin-3

Catalog No.	CRI270A CRI270B CRI270C	Quantity:	2 µg 10 µg 1.0 mg
Alternate Names:	IL-3, MCGF		
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.		
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.		
Gene ID:	481497		
Source:	<i>E. coli</i>		
Molecular Weight:	14.0 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.		
Purity:	>97% by SDS-PAGE and HPLC analyses		
Endotoxin Level:	Less than 1EU/µg of rCaIL-3 as determined by LAL method		
Biological Activity:	The ED ₅₀ as determined by the dose-dependant stimulation of the proliferation of human TF-1 cells is less than 0.2 ng/ml, corresponding to a specific activity of 5.0×10 ⁶ IU/mg.		
Amino Acid Sequence:	RPFSTDLPKQ YFTMINEIME MLNKSPSPSE EPLDSNEKET LLEDTLRPN LDVFLNASSK FHKNGLLIWN NLKEFLPLLP TPTPRGEPIS IMENNWGDFQ RKLKKYLEAL DNFLNFKNKP		
Reconstitution:	Centrifuge vial prior to opening. 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 divided into working aliquots and stored at -80°C. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	The lyophilized protein is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. After reconstitution, the protein is stable for 1 week at 2-4°C. For long term storage, aliquot and freeze at -80°C. Avoid repeated freeze-thaw cycles.		

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