



Technical Data Sheet

Recombinant Canine Interleukin-3 (rCaIL-3)

Canine 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 thrombopoiesis, 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.

Catalog Number:	RC242-14
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 14.0 kDa, a single non-glycosylated polypeptide chain containing 120 amino acids.
Quantity:	2ug/10ug/1.0mg
AA Sequence:	RPFSTDLPKQ YFTMINEIME MLNKSPSPSE EPLDSNEKET LLEDTLRPN LDVFLNASSK FHKNGLLIWN NLKEFLPLLPTPTPRGEPIS IMENNWGDFQ RKLKYLEAL DNFLNFKNKP
Purity:	>97% by SDS-PAGE and HPLC analyses.
Biological Activity:	The ED50 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.
Formulation:	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.
Endotoxin:	Less than 1EU/ μ g of rCaIL-3 as determined by LAL method.



- 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 $\leq -20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.
- Storage:** This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.
- Usage:** This material is offered by Bio Basic Inc for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.