

Recombinant Canine Interleukin-3 (Canine IL-3)

Product Information

Product Name	Cat#	Size
	90164ES10	10 µg
Recombinant Canine Interleukin-3 (Canine IL-3)	90164ES60	100 µg
	90164ES76	500 µg

Product Description

Interleukin-3 is a pleiotrophic factor produced primarily by activated T cells that can stimulate the proliferation and differentiation of pluripotent hematopoietic stem cells as well as various lineage committed progenitors. IL-3 exerts its biological activities via a heterodimeric receptor composed of an IL-3 specific alpha chain and common beta chain that is shared with the IL-5 and GM-CSF high-affinity receptors. Receptors for IL-3 are present on bone marrow progenitors, and several mature myeloid cell types. Mature canine IL-3 shares <40% amino acid sequence identity with IL-3 of other mammals.

Product Properties

Synonyms	Hematopoietic Growth Factor, MCGF, Multipotential Colony-stimulating Factor, P-cell-stimulating Factor
Accession	Q9BDX4
GeneID	481497
Source	E.coli-derived Canine IL-3, Arg24-Pro143.
Molecular Weight	Approximately 14.0 kDa.
AA Sequence	RPFSTDLPKQ YFTMINEIME MLNKSPSPSE EPLDSNEKET LLEDTLRRPN LDVFLNASSK FHKNGLLIWN NLKEFLPLLP TPTPRGEPIS IMENNWGDFQ RKLKKYLEAL DNFLNFKNKP
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 97% by SDS-PAGE and HPLC analyses.
Biological Activity	The ED ₅₀ as determined by a cell proliferation assay using human TF-1 cells is less than 0.2 ng/mL, corresponding to a specific activity of > 5.0 × 10 ⁶ IU/mg. Fully biologically active when compared to standard.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
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°C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!