IL-3 Protein, Canine

Cat. No.:	HY-P7216
Synonyms:	rCaIL-3; Mast cell growth factor; MCGF; Hematopoietic growth factor
Species:	Canine
Source:	E. coli
Accession:	Q9BDX4 (R24-P143)
Gene ID:	481497
Molecular Weight:	Approximately 14.0 kDa

PROPERTIES

AA Sequence	R P F S T D L P K Q Y F T M I N E I M E M L N K S P S P S E E P L D S N E K E T L L E D T L L R P N L D V F L N A S S K F H K N G L L I W N N L K E F L P L L P T P T P R G E P I S I M E N N W G D F Q R K L K K Y L E A L D N F L N F K N K P
Biological Activity	The ED_{50} is <0.2 ng/mL as measured by human TF-1 cells, corresponding to a specific activity of >5.0 × 10^6 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Interleukin-3 (IL-3) is a multipotent hematopoietic growth factor produced by activated T cells, monocytes/macrophages and stroma cells. Addition of IL-3 to the culture medium induces proliferation, maturation and probably self-renewal of pluripotent hematopoietic stem cells and cells of myeloid, erythroid and megakaryocytic lineages[1]. IL-3 preferentially supports the proliferation and differentiation of progenitors at early stages of hematopoietic development. In addition, IL-3 exerts a wide spectrum of biological activities on various target cell populations, including T cells, B cells, eosinophils, basophils and monocytes[2].

REFERENCES

[1]. Mangi MH, et al. Interleukin-3 in hematology and oncology: current state of knowledge and future directions. Cytokines Cell Mol Ther. 1999 Jun;5(2):87-95.

[2]. Morris CF, et al. Molecular and cellular biology of interleukin-3. Immunol Ser. 1990;49:177-214.

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