IL-3 Protein, Human (HEK293, His)

Cat. No.:	HY-P70765
Synonyms:	Interleukin-3; IL-3; Hematopoietic Growth Factor; Mast Cell Growth Factor; MCGF; Multipotential Colony-Stimulating Factor; P-Cell-Stimulating Factor; IL3
Species:	Human
Source:	HEK293
Accession:	P08700 (A20-F152)
Gene ID:	3562
Molecular Weight:	17-30 kDa

PROPERTIES

AA Sequence	A P M T Q T T P L K T S W V N C S N M I D E I I T H L K Q P P L P L L D F N N L N G E D Q D I L M E N N L R R P N L E A F N R A V K S L Q N A S A I E S I L K N L L P C L P L A T A A P T R H P I H I K D G D W N E F R R K L T F Y L K T L E N A Q A Q Q T T L S L A I F
Biological Activity	The cell proliferation assay using TF-1 human erythroleukemic cells has an ED_{50} value of 0.3-1.5 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 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	IL-3 has growth- and differentiation inducing potential on cells of the erythroid, granulocyte-macrophage (GM), megacaryocyte, and mast-cell lineage in vitro. In addition IL-3 enhances the function of mature myeloid effector cells by stimulating monocyte- and eosinophil-mediated phagocytosis and antibody-dependent cellular cytotoxicity (ADCC), monocyte M-CSF receptor expression, tumor necrosis factor (TNF) and M-CSF synthesis, and basophil production of intracellular histamine and its release in response to complement factor C5a.

Thus, IL-3 may serve as a recruitment factor for activated inflammatory cells in states of increased demand, rather than being a major regulatory element in steady-state hematopoiesis[1].

REFERENCES

[1]. A Lindemann, et al. Biologic effects of recombinant human interleukin-3 in vivo. J Clin Oncol. 1991 Dec;9(12):2120-7.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA