

IL-3 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70685
Synonyms:	Interleukin-3; IL-3; Hematopoietic growth factor; Multipotential colony-stimulating factor; P-cell-stimulating factor; Il3; Il-3; Mast cell growth factor; MCGF
Species:	Mouse
Source:	HEK 293
Accession:	P01586 (A27-C166)
Gene ID:	16187
Molecular Weight:	15-32 kDa

PROPERTIES

AA Sequence	<pre> A S I S G R D T H R L T R T L N C S S I V K E I I G K L P E P E L K T D D E G P S L R N K S F R R V N L S K F V E S Q G E V D P E D R Y V I K S N L Q K L N C C L P T S A N D S A L P G V F I R D L D D F R K K L R F Y M V H L N D L E T V L T S R P P Q P A S G S V S P N R G T V E C </pre>
Biological Activity	The cell proliferation assay using NFS 60 mouse myelogenous leukemia lymphoblast cells has an ED50 value of 582 pg/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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. 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	<p>Interleukin-3 (IL-3) is a glycoprotein belonging to the hematopoietic growth factor family that in preclinical in vitro and in vivo studies has exhibited a multilineage activity. Recombinant human interleukin-3 (rhIL-3) enhances the mobilization of peripheral blood progenitor cells by recombinant human granulocyte colony-stimulating factor (rhG-CSF)^[1]. Human interleukin-3 (hIL-3) is a multipotent hematopoietic cytokine produced by mitogen and antigen-activated keratinocytes, T-lymphocytes, mast cells, NK cells, monocytes and endothelial cells. The hematopoietic progenitor cells are proliferated and differentiated with the help of hIL-3 protein into mature erythrocytes, mast cells, megakaryocytes and granulocytes. The potential use of hIL-3 protein has been extensively tested in various clinical applications such as bone marrow</p>
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transplantation, hematological malignancies, cytopenias, aplastic anemia and various types of cancer^[2].

REFERENCES

- [1]. Huhn RD, et al. Recombinant human interleukin-3 (rhIL-3) enhances the mobilization of peripheral blood progenitor cells by recombinant human granulocyte colony-stimulating factor (rhG-CSF) in normal volunteers. *Exp Hematol.* 1996 Jun;24(7):839-47.
- [2]. Dagar VK, et al. Combined effect of gene dosage and process optimization strategies on high-level production of recombinant human interleukin-3 (hIL-3) in *Pichia pastoris* fed-batch culture. *Int J Biol Macromol.* 2018 Mar;108:999-1009.
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Caution: Product has not been fully validated for medical applications. For research use only.

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