

IL-3 Protein, Rhesus macaque (His)

Cat. No.:	HY-P71858A
Synonyms:	IL3; Interleukin-3; IL-3; Hematopoietic growth factor; Mast cell growth factor; MCGF; Multipotential colony-stimulating factor; P-cell-stimulating factor
Species:	Rhesus Macaque
Source:	E. coli
Accession:	P25140 (A20-Q143)
Gene ID:	706946
Molecular Weight:	approximately 17 kDa

PROPERTIES

AA Sequence	<p>A P M T Q T T S L K T S W A K C S N M I D E I I T H L N Q P P L P S P D F N N L</p> <p>N E E D Q T I L V E K N L R R S N L E A F S K A V K S L Q N A S A I E S I L K N</p> <p>L P P C L P M A T A A P T R P P I R I T N G D R N D F R R K L K F Y L K T L E N</p> <p>E Q A Q</p>
Biological Activity	Measured in a cell proliferation assay using using TF1 human human erythroleukemic cells. The ED ₅₀ for this effect is 0.8725 ng/mL, corresponding to a specific activity is 1.146×10 ⁶ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, 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. 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, a hematopoietic cytokine, exerts regulatory control over hematopoiesis by influencing the production, differentiation, and function of distinct white blood cell populations, including granulocytes, monocytes, macrophages, mast cells, stem cells, erythroid cells, eosinophils, and megakaryocytes. Acting as a colony-stimulating factor, IL-3 plays a crucial role in promoting the development and maturation of these various cell types within the blood, contributing to the maintenance of a functional and balanced immune system.
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Caution: Product has not been fully validated for medical applications. For research use only.

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