

IL-3 Protein, Cynomolgus (His)

Cat. No.:	HY-P700859
Synonyms:	IL3; IL-3; IL-3MGC79398; interleukin-3; MULTI-CSF; MCGF
Species:	Cynomolgus
Source:	E. coli
Accession:	G7P877 (A20-Q143)
Gene ID:	/
Molecular Weight:	15.13 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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 Protein is a cytokine primarily secreted by activated T-lymphocytes, mast cells, and osteoblastic cells, and it plays a vital role in regulating hematopoietic progenitor cell production and differentiation into specific cell lineages. Additionally, IL-3 stimulates the functional activation of mature basophils, eosinophils, and monocytes. It also has important functions in neural cell proliferation and survival, and it participates in maintaining bone homeostasis by inhibiting osteoclast differentiation through the prevention of NF-kappa-B nuclear translocation and activation. The biological effects of IL-3 are mediated through a receptor complex composed of the IL3RA subunit and the IL3RB signal transducing subunit, which leads to the rapid activation of JAK2 kinase activity and subsequent STAT5-mediated transcriptional programming. Furthermore, in non-hematopoietic systems, IL-3 contributes to cell survival during oxidative stress by activating pathways involving PI3K/AKT and ERK.
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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