

Catalog Number: HZ-1074

Data Sheet

HumanKine® recombinant human IL-3 protein



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

Product Description

Animal-free Recombinant Human IL-3 expressed in human 293 cells is a glycosylated monomer with an apparent molecular mass of 17 to 40 kDa. This broad molecular mass is attributable to glycosylation, which is absent when this cytokine is expressed in E. coli. A hematopoietic growth factor, IL-3 promotes the survival, differentiation, and proliferation of committed progenitor cells of the megakaryocyte, granulocyte-macrophage, basophil, erythroid, eosinophil, and mast cell lineages. This cytokine can also improve the natural response to disease as part of the body's immune system.

Alternative Names Hematopoietic growth factor, IL 3, IL3, IL-3, Interleukin 3, Mast cell growth factor, MCGF, MULTI CSF, P cell stimulating factor

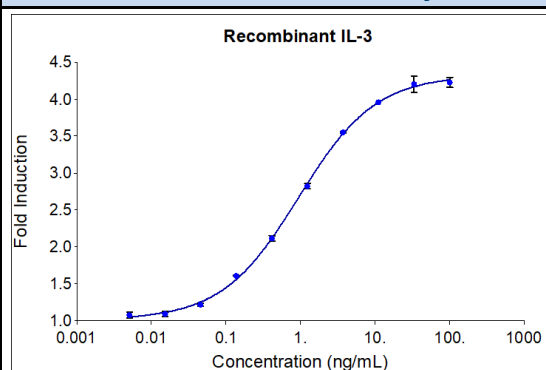
Source Human Embryonic Kidney cells (HEK293). HEK293-derived IL-3 protein

Species Reactivity human

Specifications

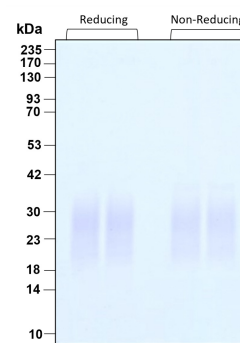
Test	Method	Specification
Activity (EC50)	Dose-dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line)	0.4-2.0 ng/mL
Molecular Mass	SDS-PAGE	17 to 50 kDa reduced and non-reduced, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

Activity Data



Recombinant human IL-3 (HZ-1074) stimulates dose-dependent proliferation of the TF-1 human erythroleukemic indicator cell line. Cell number was quantitatively assessed by PrestoBlue® Cell Viability Reagent. TF-1 cells were treated with increasing concentrations of recombinant IL-3 for 72 hours. The EC50 was determined using a 4-parameter non-linear

SDS-PAGE



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Preparation	
Shipping Temperature	ambient temperature
Formulation	1xPBS, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 1xPBS pH 7.4. Gently swirl or tap vial to mix.

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
Avoid repeated freeze-thaw cycles.			

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