

Catalog Number: HZ-1324

Data Sheet





Animal Component-Free

Human cell expressed

Tag-Free

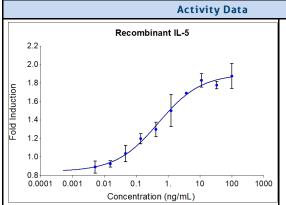
Endotoxin Free

Product Description

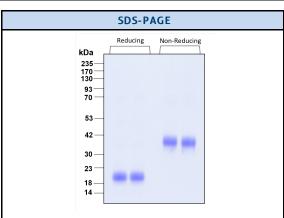
IL-5 is a 4- a -helix, pleiotropic cytokine that regulates the activities of B cells, eosinophils, and basophils. It is produced mostly by CD4+ T cells, eosinophils, and basophils, and signals through its specific receptor (IL-5R) on target cells to activate downstream JAK/STAT, Btk, and Ras/ERk pathways. Due to its pleiotropic effects, IL-5 plays a role in both innate and adaptive immune responses. It is a strong promoter of eosinophil differentiation, migration, maturation, and survival. Additionally, IL-5 is also capable of stimulating activated B cells to differentiate into antibody-secreting cells. Elevated IL-5 levels are strongly correlated with eosinophilia, which is a hallmark feature of allergy, asthma, and hypersensitivity (PMID: 21986312, 22174445, 19819937, 16895557)

Alternative Names	IL5, IL 5, IL-5T-cell replacing factor, interleukin 5, interleukin-5, EDF, Eo-CSF, Eosinophil differentiation factor, BCDF mu, B-cell differentiation factor I, BCGFII, TRF, TRFB cell differentiation factor	
Source	Source Human Embryonic Kidney cells (HEK293). HEK293-derived IL-5 protein	

Specifications					
Test	Method	Specification			
Activity	Dose-dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line)	0.2-0.9 ng/mL EC50			
Molecular Mass	SDS-PAGE	19 to 21 kDa reduced, 35 to 40 kDa non-reduced, disulfide linked homodimer, glycosylated			
Purity	SDS-PAGE	>95%			
Endotoxin	LAL	<0.1 EU/µg			



Recombinant human IL-5
(HZ-1324) stimulates dosedependent 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-5 for 120
hours. The EC50 was
determined using a 4parameter non-linear



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Preparation				
Shipping Temperature ambient temperature				
Formulation	Formulation 1x PBS, See Certificate of Analysis for details			
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA).			

	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
Stability and Storage	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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