

**HumanKine<sup>®</sup> IL-4 (Recombinant Human)**



Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free
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**Product Description**

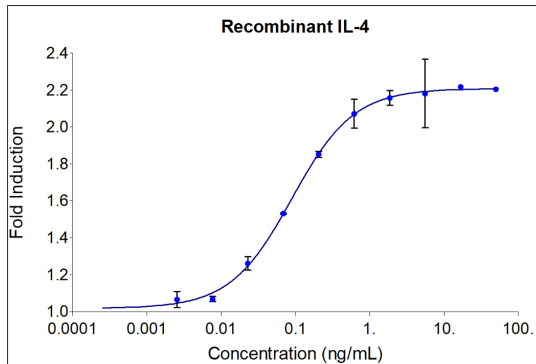
Animal-free Recombinant Human IL-4 also known as B cell-stimulatory factor-1. IL-4 is a monomeric, approximately 13 kDa and 19 kDa Th2 cytokine which shows pleiotropic effects during immune responses. Our IL-4 is produced in a human cell expression system with serum-free and chemically defined media. It has demonstrated greater stability under cell culture conditions making it ideal for efficient generation of Human Dendritic Cells.

Alternative Names	B cell stimulatory factor 1, Binetrakin, BSF 1, BSF1, IL 4, IL4, IL-4, interleukin 4, Pitrakinra
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived IL-4 protein
Species Reactivity	human,mouse,pig

**Specifications**

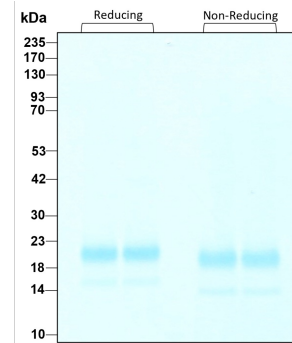
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line)	0.07-0.4 ng/mL EC50
Molecular Mass	SDS-PAGE	14 and 19 kDa, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

**Activity Data**



Recombinant human IL-4 (HZ-1004) stimulates dose-dependent proliferation of the TF-1 human erythroleukemic indicator cell line. Cell number was quantitatively assessed by PrestoBlue<sup>®</sup> cell viability reagent. TF-1 cells were treated with increasing concentrations of recombinant IL-4 for 72 hours. The EC50 was determined using a 4-parameter non-linear

**SDS-PAGE**



Preparation	
Shipping Temperature	ambient temperature
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).

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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