

## HumanKine® IL-2 (Recombinant Human)



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

### Product Description

Animal-free Recombinant Human IL-2 is an O-glycosylated, four alpha-helix bundle cytokine. It is expressed by gamma T cells, CD4+ and CD8+ T cells, eosinophils, B cells, and dendritic cells. IL-2 has potent stimulatory activity for antigen-activated T cells. It is a monomeric glycoprotein with an apparent molecular mass of 15 kDa. This cytokine is produced in a human cell expression system with serum-free, chemically defined media. Production in human 293 cells offers authentic glycosylation, which contributes to stability in cell growth media.

#### Alternative Names

IL 2, IL2, IL-2, interleukin 2, lymphokine, T cell growth factor, TCGF

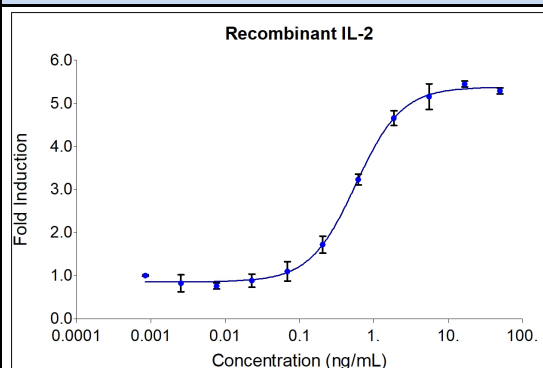
#### Source

Human Embryonic Kidney cells (HEK293). HEK293-derived IL-2 protein

### Specifications

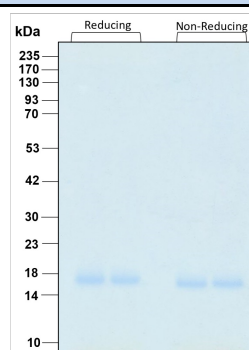
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of mouse CTLL-2 cells (mouse cytotoxic T cell line)	0.05-0.35 ng/mL
Molecular Mass	SDS-PAGE	17 kDa reduced, 16 kDa non-reduced, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

### Activity Data



recombinant human IL-2 (HZ-1015) stimulates dose-dependent proliferation of the CTLL-2 (mouse cytotoxic T) cell line. Viable cell number was quantitatively assessed by Prestoblu<sup>®</sup> Cell Viability Reagent. CTLL-2 cells were starved for 5 hours before treatment with increasing concentrations of GMP recombinant human IL-2 for 48 hours. The EC<sub>50</sub> 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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