proteintech®
Antibodies | ELISA kits | Proteins

Catalog Number: HZ-1281

Data Sheet

HumanKine® IL-7 (Recombinant Human)

Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free

Product Description

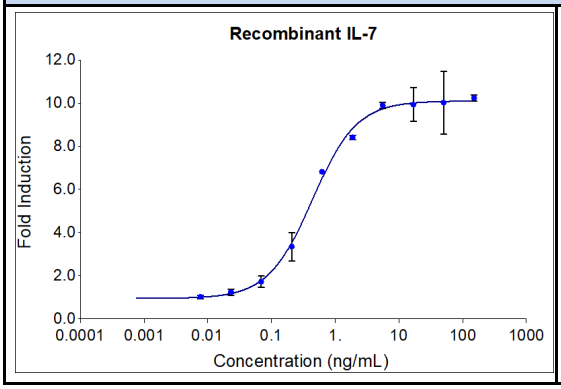
Animal-free Recombinant Human IL-7 is expressed in Human 293 cells as a highly glycosylated protein. Under reducing conditions, IL-7 migrates as three separate bands as 19 kDa, 25 kDa and 30 kDa. In comparison IL-7 produced in an E. coli expression system have glycosylation and migrate as a single band at 17 kDa. IL-7 is a hematopoietic cytokine that is important for B and T cell development. When combined with other factors, IL-7 can also co-stimulate the proliferation of mature T cells. Production in human 293 cells uses a serum-free, chemically defined media and offers authentic glycosylation.

Alternative Names	IL 7, IL7, IL-7, interleukin 7
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived IL-7 protein

Specifications

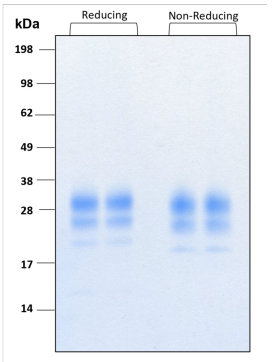
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of murine 2E8 cells	0.1-1.4 ng/mL EC50
Molecular Mass	SDS-PAGE	19, 25, and 30 kDa reduced and non-reduced, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/ µ g

Activity Data



Recombinant human IL-7 (HZ-1281) stimulates dose-dependent proliferation of the 2E8 murine B Lymphocyte cell line. Cell number was quantitatively assessed by PrestoBlue® Cell Viability Reagent. 2E8 cells were treated with increasing concentrations of recombinant IL-7 for 120 hours. The EC50 was determined using a 4-parameter non-linear regression model. The EC50

SDS-PAGE



Proteintech Group, Inc.
5500 Pearl Street, Suite 400 Rosemont, IL 60612
t: 1-888-478-4522; f: 1-312-455-8408
Email: proteintech@ptglab.com

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).

	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
Stability and Storage	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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