

Catalog Number: HZ-1281-GMP

Data Sheet



HumanKine® recombinant human IL-7 protein- GMP grade

Animal Component-Free

Human cell expressed

Tag-Free

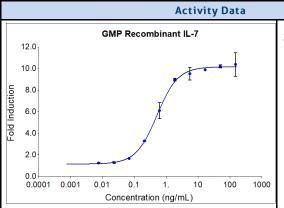
Endotoxin Free

Product Description

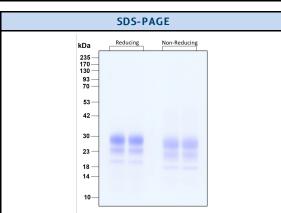
Animal-free Recombinant Human IL-7 is expressed in Human 293 cells as a highly glycosylated protein. Under reducing conditions, IL-7 migrates as three separate bands as 19 kDa, 25 kDa and 30 kDa. In comparison IL-7 produced in an E. coli expression system have glycosylation and migrate as a single band 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, IL-7, interleukin 7		
Accession Number	umber P13232		
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived IL-7 protein		
Species Reactivity	activity human,mouse		
Adventitious Virus Master Cell Bank tested Negative for Adventitious Viruses			

Specifications					
Test	Method	Specification			
Activity	Dose-dependent stimulation of the proliferation of murine 2E8 cells	0.1-1.4 ng/mL			
Molecular Mass	SDS-PAGE	19, 25, and 30 kDa reduced and non-reduced, monomer, glycosylated			
Purity	SDS-PAGE	> 95%			
Endotoxin	LAL	< 0.1 EU/µg			
Mycoplasma	PCR	Not Detected			



GMP recombinant human IL-7 (HZ-1281-GMP) 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



Purity of GMP-grade recombinant human IL-7 was determined by SDS- polyacrylamide gel electrophoresis. The protein was resolved in an SDS- polyacrylamide gel in reducing and non-reducing conditions and stained using Coomassie blue.

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Proteintech Group, Inc.

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	Preparation				
Shipping 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 to 0.2 mg/mL in sterile 1 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mi					

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.		

Proteintech GMP Quality Policy HumanKine® GMP Proteins

Invitro recombinant protein production can be prone to variability due to various reasons ranging from quality of raw materials to inconsistency in the process. Therefore, HumanKine®, a proteintech brand's GMP proteins are produced and tested under an ISO 13485 certified quality management system in a clean room facility. Proteintech manufactures the GMP HumanKine® products according to the applicable sections in the following documents: USP Chapter 1043 (Ancillary Materials for Cell, Gene, and Tissue-Engineered Products, USP Chapter 92 (Growth Factors and Cytokines Used in Cell Therapy Manufacturing), WHO TRS, No. 822, 1992 Annex 1 (Good Manufacturing Practices for Biological Products), Ph. Eur. General Chapter 5.2.12, and EudraLex – Volume 4 – Part IV (Guidelines on GMP specific to ATMPs). Proteintech strives to achieve the utmost quality GMP raw material ensuring all applicable guidelines are taken into consideration.

The QMS is built to provide our customers with consistent and pure product delivered by documented processes, qualified personnel, validated processes, qualified equipment, qualified vendors, and a stringent final product release process. Although the final product release process is important, Proteintech performs in-process QC steps after each major manufacturing stage. Production records and facilities may be available for an inspection by approved personnel.

Our GMP policy covers all the aspects of production; from raw materials, facility, equipment, and Instruments to training and personal hygiene of staff. It also guarantees that the process is explicit, validated and well documented for transparency and traceability.

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