

## Catalog Number: HZ-1240-GMP

## Data Sheet



## HumanKine® recombinant human IL-9 protein- GMP

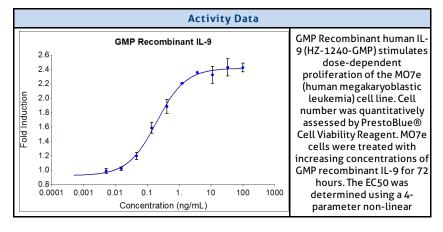
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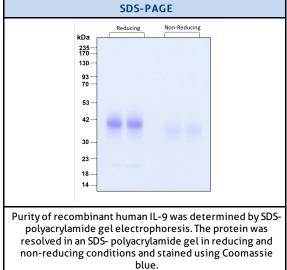
Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free				
Product Description							

Animal-free Recombinant Human IL-9 is expressed from human 293 cells as a glycoprotein monomer with apparent molecular mass of 38 to 48 kDa. IL-9 is produced in a human cell expression system with serum-free, chemically defined media. It stimulates cell proliferation and also prevents apoptosis. IL-9 acts as a regulator for a variety of hematopoietic cells. It enhances the expansion and recruitment of mast cells and eosinophils. This cytokine is greater than 95% pure.

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Alternative Names	ernative Names Cytokine P40, HP40, IL 9, IL9, IL-9, interleukin 9, P40, T cell growth factor P40			
Accession Number	P15248			
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived IL-9 protein			
Species Reactivity	human			
Adventitious Virus	Adventitious Virus Master Cell Bank tested Negative for Adventitious Viruses			

Specifications					
Test	Method	Specification			
Activity	Dose-dependent stimulation of the proliferation of human MO7e cells (human megakaryoblastic leukemia cell line).	0.1-0.6 ng/mL			
Molecular Mass	SDS-PAGE	38 to 45 kDa reduced, 32 to 40 kDa non-reduced, monomer, glycosylated			
Purity	SDS-PAGE	>95%			
Endotoxin	LAL	<0.1 EU/µg			
Mycoplasma	PCR	Not Detected			





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Preparation				
Shipping Temperature				
Formulation	ulation 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 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.			

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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