

Catalog Number: HZ-1015-GMP

Data Sheet





Animal Component-Free

Human cell expressed

Tag-Free

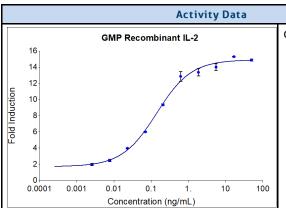
Endotoxin Free

Product Description

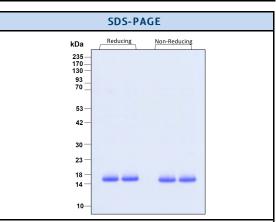
Animal-free Recombinant Human IL-2 is an O-glycosylated, four alpha -helix bundle cytokine. It is expressed by gamma T cells, CD4+ and CD8+ T cells, eosinophils, B cells, and dendritic cells. IL-2 has potent stimulatory activity for antigen-activated T cells. It is a monomeric glycoprotein with an apparent 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.

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	Alternative Names	IL 2, IL2, IL-2, interleukin 2, lymphokine, T cell growth factor, TCGF	
	Accession Number	P60568	
Source Human Embryonic Kidney cells (HEK293). HEK293-derived		Human Embryonic Kidney cells (HEK293). HEK293-derived IL-2 protein	
	Adventitious Virus	Master Cell Bank tested Negative for Adventitious Viruses	

	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	<0.1 EU/µg			
Mycoplasma	PCR	Not Detected			



GMP Recombinant human IL-2 (HZ-1015-GMP) induces dose-dependent proliferation of the CTLL2 (mouse cytotoxic T cell) cell line. Cell number was quantitatively assessed by PrestoBlue® cell viability reagent. CTLL2 cells were treated with increasing concentrations of GMP recombinant IL-2 for 48 hours. The EC50 was determined using a 4-parameter non-linear



Purity of recombinant human IL-2 was determined by SDSpolyacrylamide 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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	Preparation		
Shipping Temperature	ambient temperature		
Formulation	on 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.		

	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)	
	Lyophilized	-20°C to -80°C	Until Expiry Date	
Stability and Storage	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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