

## Catalog Number: HZ-1256-GMP

## Data Sheet



**Animal Component-Free** 

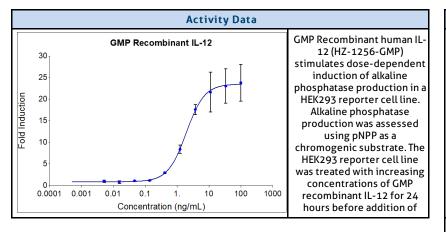
Human cell expressed

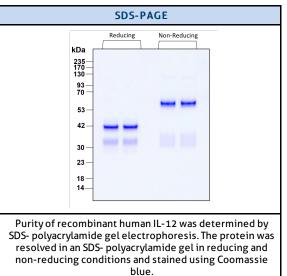
Tag-Free

Endotoxin Free

Product Description					
Animal-free Recombinant Human IL-12 is expressed in human 293 cells as a heterodimeric cytokine composed of two glycosylated and disulfide-linked subunits (p40 cysteine-linked to p35). Production in human 293 cells uses a serum-free, chemically defined media and offers authentic glycosylation. IL-12 is a potent regulator of cell mediated immune responses and it induces IFN-gamma production by NK and T cells. It is produced by activated monocytes/macrophage cells, B lymphocytes, and connective tissue type mast cells.					
Alternative Names	ternative Names CLMF, CLMF p35, IL 12 subunit p35, IL 12A, IL12, IL-12, IL12A, Interleukin 12 subunit alpha, NFSK, NKSF1, P35				
Accession Number	Accession Number P29459 (p35 subunit) P29460 (p40 subunit)				
Source	Source Human Embryonic Kidney cells (HEK293). HEK293-derived IL-12 protein				
Adventitious Virus Master Cell Bank tested Negative for Adventitious Viruses					

Specifications					
Test	Method	Specification			
Activity	Dose-dependent induction of alkaline phosphatase production in a HEK293 reporter cell line.	0.8-4 ng/mL			
Molecular Mass	SDS-PAGE	34 and 42 kDa reduced, 57 kDa non-reduced, heterodimer, glycosylated			
Purity	SDS-PAGE	>95%			
Endotoxin	LAL	<0.1 EU/µg			
Mycoplasma	PCR	Not Detected			





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Preparation				
Shipping Temperature	e ambient temperature			
Formulation	mulation 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 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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