## Catalog Number: HZ-1218-GMP

## Data Sheet

## GMP HumanKine® FGF-4 (Recombinant Human)

Animal Component-Free Human cell expressed

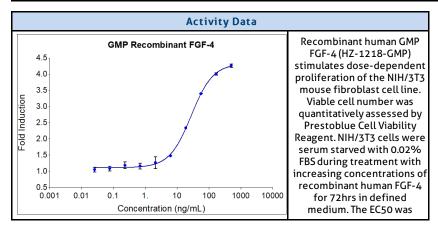
Tag-Free

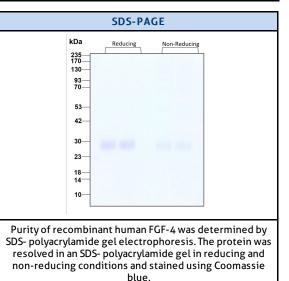
Endotoxin Free

Product DescriptionAnimal-free Recombinant Human FGF-4 is expressed in human 293 cells as a monomeric glycoprotein with an apparent molecular mass of 17 and 27 kDa.<br/>This cytokine is produced in a human cell expression system with serum-free, chemically defined media. Authentic glycosylation contributes to stability<br/>in cell growth media and other applications. FGF-4 plays an important physiologically role in the self-renewal of human embryonic stem cells. It also<br/>promotes stem cell proliferation. Furthermore, FGF-4 may also aid differentiation which additionally relies on context and concentration.Alternative NamesFGF 4, FGF4, FGF-4, fibroblast growth factor 4, HBGF 4, HST, HST 1, HSTF 1, K FGF, KFGF, KS3, Transforming protein KS3

		5.		
	Accession Number	r P11403		
	Source	Human Embryonic Kidney cells (HEK293). HEK293-derived FGF-4 protein		
	Adventitious Virus	Master Cell Bank tested Negative for Adventitious Viruses		

Specifications					
Test	Method	Specification			
Activity	Dose-dependent stimulation of the proliferation of the Balb/c 3T3 cell line. Dose-Dependent Proliferation of the NIH3T3 cell line in defined media	6-30 ng/mL in NIH 3T3 cells in defined media			
Molecular Mass	SDS-PAGE	17 and 27 kDa, monomer, glycosylated			
Purity	SDS-PAGE	>95%			
Endotoxin	LAL	<0.1 EU/ µ g			
Mycoplasma	PCR	Not Detected			





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	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 to 0.2 mg/mL in sterile 1x PBS pH 7.4. 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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