

GMP HumanKine[®] SCF (Recombinant Human)



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

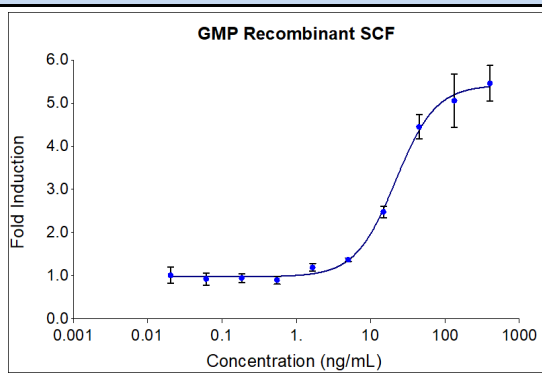
Animal-free Recombinant Human SCF is expressed in human 293 cells as a monomeric glycoprotein with an apparent molecular mass of 35 to 45 kDa. This product is produced in a human cell expression system with serum-free, chemically defined media. Production in human 293 cells offers authentic glycosylation, contributing to stability in cell growth media and other applications. SCF is a hematopoietic growth factor that exerts its activity by signaling through the c-Kit receptor. SCF and c-Kit are essential for the survival, proliferation, and differentiation of hematopoietic cells committed to the melanocyte and germ cell lineages.

Alternative Names	c Kit ligand, DKFZp686F2250, KIT ligand, Kitl, KITLG, KL 1, Mast cell growth factor, MGF, SCF, SF, SHEP7, Stem cell factor
Accession Number	P21583
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived SCF protein
Adventitious Virus	Master Cell Bank tested Negative for Adventitious Viruses

Specifications

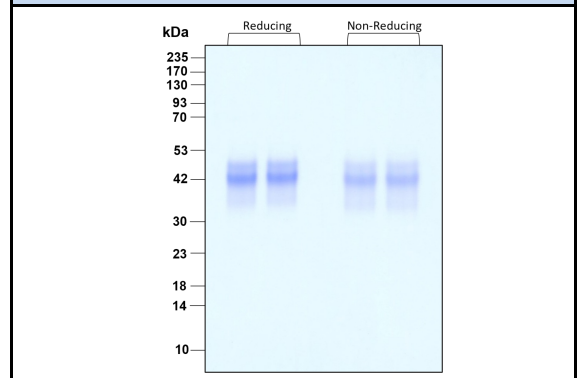
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of MO7e cells (human megakaryoblastic leukemia cell line)	15-85 ng/mL EC50
Molecular Mass	SDS-PAGE	35 to 45 kDa, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<0.1 EU/μg
Mycoplasma	PCR	Not Detected

Activity Data



GMP Recombinant human SCF (HZ-1024-GMP) stimulates dose-dependent proliferation of the MO7e human megakaryoblastic leukemia cell line. Cell number was quantitatively assessed by PrestoBlue[®] Cell Viability Reagent. MO7e cells were treated with increasing concentrations of GMP recombinant SCF for 72 hours. The EC50 was determined using a 4-parameter non-linear

SDS-PAGE



Purity of recombinant human SCF 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.

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 in sterile 1xPBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

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

In vitro 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.

www.ptglab.com

Document #: FR-QA118-101 Rev 0
Data Sheet Version #:

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