



CellGenix[®] GMP Recombinant Human Stem Cell Factor (rh SCF) Order No.: 1018-050 (50 μg), 1018-1000 (1000 μg)

Product Characteristics

Source	E. coli
Description	Human SCF, accession # P21583, Glu26-Ala189 N-terminal Met and C-terminal 6xHis-tag Molecular mass 19.4 kDa
Formulation	Lyophilized from a 0.2 μ m-filtered solution containing 25 mM sodium phosphate, 150 mM sodium chloride and 1 mM EDTA, pH 7.4.
Intended use	For clinical ex vivo use. Not intended for human in vivo application.

Quality Parameters

Identity	Confirmed by DNA-sequencing of the expression plasmid in end-of-production cells and N-terminal sequencing of the final product
Activity	0.5 – 2.0 x 10 ⁶ IU/mg calibrated against NIBSC #91/682 Measured in a cell proliferation assay using a SCF-dependent cell line, TF-1
Purity	\geq 97 %, as determined by SDS-PAGE (under reducing and non-reducing conditions, visualized by Coomassie staining)
Product-related proteins	\leq 10 % oligomers, \leq 5 % isomers, as determined by SDS-PAGE (under non-reducing conditions, visualized by Coomassie staining)
Host-cell DNA	\leq 200 ng/mg, as determined with a fluorimetric assay
Host-cell protein	\leq 1.0 µg/mg, as determined by ELISA
Endotoxin	\leq 50 EU/mg, as determined by LAL gel clot test according to Ph. Eur. and USP
Sterility	Sterility test according to Ph. Eur. and USP of the vialed product (direct inoculation)
Mass per vial	50 μg: 43 – 57 μg, 1000 μg: 900 – 1100 μg as determined by spectrophotometrical measurement
Animal-derived component-free	ADCF Level 2: The final product contains neither animal- nor human-derived materials. ADCF Level 2 cytokines are produced in our dedicated animal-free facility. No animal-derived components are used throughout the complete production process. All ADCF Level 2 cytokines are produced in <i>E. coli</i> .

SCellGenix

Shipment & Storage

Transport Expiry Storage & Stability Ambient temperature. Please refer to Technote (www.cellgenix.com)

Minimum 6 months from date of shipping

Store lyophilized cytokine at -20°C to -80°C.

Store a 250 µg/ml cytokine solution

- 4 weeks at 2°C to 8°C under sterile conditions after reconstitution. Store in the original container.
- 4 months at -20°C to -80°C under sterile conditions after reconstitution. Store in 60 μ l aliquots in polypropylene cryogenic vials.

Avoid repeated freeze/thaw cycles.

Handling Instructions

ReconstitutionRecommended in sterile water to a final concentration of 250 μg/ml for 50 μg vials or
500 μg/ml for 1000 μg vials.DilutionRecommended in CellGenix® serum-free media. For dilution with protein free medium,
a carrier protein (0.1-1 % albumin or 1-10 % appropriate serum) has to be included.
Failure to dilute product according to these instructions may result in loss of activity.

Quality Statement

This product is manufactured, tested and released in compliance with the relevant GMP-guidelines. USP chapter <1043> has been considered in the design of this product. This product is compliant with Ph. Eur. general chapter 5.2.12.

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