Data Sheet

CellGenix® Recombinant Human Human Stem Cell Factor (rh SCF)

Preclinical Grade - Order No.: 1418-010 (10 µg), 1418-050 (50 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 µm-filtered solution containing 25 mM sodium phosphate, 150 mM sodium chloride, and 1 mM EDTA, pH 7.4.
Intended use	For preclinical *ex vivo* use. Not intended for therapeutic use.

Quality Parameters

Activity	≥ 0.5 x 10^6 IU/mg calibrated against NIBSC #91/682 Measured in a cell proliferation assay using an SCF-dependent cell line, TF-1
Purity	≥ 95 %, as determined by SDS-PAGE (under reducing and non-reducing conditions, visualized by Coomassie staining)
Endotoxin	< 1000 EU/mg, as determined by LAL gel clot test
Sterility	Sterility test of the vialed product (direct inoculation)
Mass per vial	1418-010: 10 µg, 1418-050: 50 µg
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 *E. coli*.

Shipment & Storage

Transport	Ambient temperature. Please refer to Technote (www.cellgenix.com)
Expiry	3 years from date of shipment
Storage & Stability	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 µl aliquots in polypropylene cryogenic vials. Avoid repeated freeze/thaw cycles.

Handling Instructions

Reconstitution	Recommended in sterile water to a final concentration of 100 µg/ml (for 10 µg vials) or 250 µg/ml (for 50 µg vials).
Dilution	Recommended 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

Final manufacturing steps and QC are performed in a GMP facility.

ZY-DS-1418c | 09/2017

HQ: CellGenix GmbH | Am Flughafen 16 | D – 79108 Freiburg | GERMANY | Phone +49 761 888 89-0 | Fax +49 761 888 89-830
US: CellGenix Inc. | One New Hampshire Avenue, Suite 125 | Portsmouth, NH 03801 | USA | Phone +1 603 373 0408 | Fax +1 603 373 8104
www.cellgenix.com | info@cellgenix.com