



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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**Datasheet for 009-001-W20-0010****rHuman SCF Protein****Overview**

<b>Description:</b>	Human Stem Cell Factor Recombinant Protein - 009-001-W20-0010
<b>Item No.:</b>	009-001-W20-0010
<b>Size:</b>	10 µg
<b>Applications:</b>	SDS-PAGE, Cellular Assay
<b>Origin:</b>	Human
<b>Expressed in:</b>	E. coli

**Product Details**

<b>Background:</b>	Stem Cell Factor (SCF) is a cytokine made by fibroblasts and endothelial cells. SCF binds to the receptor known as c-Kit (CD117) and is thought to play a critical role in the maintenance or survival of hematopoietic stem cells. Human SCF shows no activity on murine cells, but murine and rat SCF are active on human cells. Recombinant human SCF is a non-glycosylated protein, containing 165 amino acids, with a molecular weight of 18.4 kDa
<b>Synonyms:</b>	c-Kit Ligand, KL, Steel Factor, Stem cell factor (SCF), Mast cell growth factor (MGF)
<b>Species of Origin:</b>	Human
<b>Expressed in:</b>	E. coli
<b>Type:</b>	Recombinant Protein
<b>Low Endotoxin:</b>	Yes

**Target Details**

<b>Gene Name:</b>	KITLG
<b>Purity/Specificity:</b>	Stem Cell Factor purity was determined to be greater than 98% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-PAGE.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P21583</a></li></ul>

## Application Details

<b>Tested Applications:</b>	SDS-PAGE
<b>Suggested Applications:</b>	Cellular Assay (Based on references)
<b>Application Note:</b>	Stem Cell Factor Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Stem Cell Factor in immunological assays. Buffer Formulation: 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>Other:</b>	Endotoxin Level: Measured by kinetic LAL analysis and is typically $\leq 1$ EU/ $\mu$ g protein. Biologic Activity: The activity is determined by the dose-dependent stimulation of Human TF-1 cells and is typically 15 ng/mL.

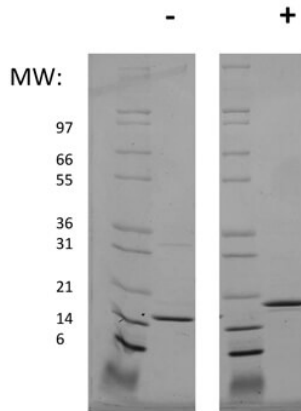
## Formulation

<b>Physical State:</b>	Lyophilized
<b>Buffer:</b>	See application note.
<b>Preservative:</b>	None
<b>Stabilizer:</b>	None
<b>Reconstitution Volume:</b>	10 $\mu$ l (10-100 $\mu$ l)
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
<b>Storage Condition:</b>	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
<b>Expiration:</b>	Expiration date is six (6) months from date of receipt.

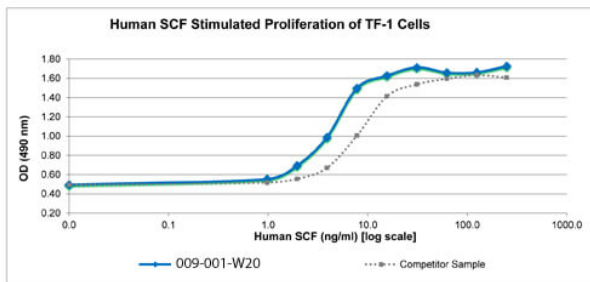
## Images


**SDS-PAGE**

SDS-PAGE of Human Stem Cell Factor Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Human SCF in non-reducing conditions (-). Lane 3: Molecular weight marker. Lane 4: 1 µg Human SCF in reducing conditions (+). Human SCF has a predicted MW of 18.4 kDa.

**SDS-PAGE**

Bioactivity of Human Stem Cell Factor Recombinant Protein. Serial dilutions of Human SCF, starting at 250 ng/mL, were added to TF-1 cells. After 68 hours, cell proliferation was measured and the linear portion of the curve was used to calculate the ED50. The ED50 of Human SCF is 3.3-5 ng/mL. This value is comparable to the typical expected value of 1-5 ng/mL.


**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.