TECHNICAL DATA SHEET

Recombinant Human SCF (Carrier-Free)

Catalog Number: 21-9143

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human SCF (Carrier-Free)

DESCRIPTION

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. Human SCF manifests low activity on Mouse cells, while Mouse and rat SCF are fully active on human cells.

MOLECULAR MASS

Recombinant Human SCF is an 18.4 kDa polypeptide containing 165 amino acid residues, which corresponds to the sequence of the secreted soluble form of SCF.

AMINO ACID SEQUENCE

MEGICRNRVT NNVKDVTKLV ANLPKDYMIT LKYVPGMDVL PSHCWISEMV VQLSDSLTDL LDKFSNISEG LSNYSIIDKL VNIVDDLVEC VKENSSKDLK KSFKSPEPRL FTPEEFFRIF NRSIDAFKDF VVASETSDCV VSSTLSPEKD SRVSVTKPFM LPPVA

SOURCE	APPLICATIONS	PURITY	STORAGE
E. coli	Bioassay	98 %	-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

Bacteria, Human, Human + Mouse, Leech, Monkey, Mouse, Pig, Rabbit, Rat

BIOACTIVITY

The ED50 as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is ≤ 2.0 ng/ml, corresponding to a specific activity of ≥ 5 x 105 units/mg.

RESEARCH AREAS

Immune System, Proliferation, Stem Cells & Differentiation, Cell Culture

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

González-Murillo, A. Development of lentiviral vectors with optimized transcriptional activity for the gene therapy of patients with Fanconi anemia. 2010. Human Gene Therapy; 21(5):623-30. Kataoka, T.R. CD72 negatively regulates KIT-mediated responses in human mast cells. 2010. The Journal of Immunology; 184(5):2468-75.