

TECHNICAL DATA SHEET

Recombinant Human SCGF-beta (Carrier-Free)

Catalog Number: 21-9027

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human SCGF-beta (Carrier-Free)

DESCRIPTION

SCGF-alpha and -beta are hematopoietic growth factors that exert their activity at early stages of hematopoiesis. The SCGFs are non-glycosylated species-specific cytokines that can support growth of primitive hematopoietic cells, and, in combination with EPO or GM-CSF, promote proliferation of erythroid or myeloid progenitors, respectively.

MOLECULAR MASS

Recombinant Human SCGF-beta is a 25.0 kDa polypeptide containing 227 amino acid residues.

AMINO ACID SEQUENCE

GHGARGAER EWEGGWGGAQ EEEREREALM LKHLQEALGL PAGRGDENPA GTVEGKEDWE MEEDQGESEE EEATPTPSSG PSPSPTEPI
 VTYLGLRLAG LDAGLHQLHV RLHALDTRV ELTQGLRQLR NAAGDTRDAV QALQEAQGRA EREHGRLEGC LKGLRLGHKC FLLSRDFEAQ
 PSAPHPPLSP DQPNGGTLEN CVAQASDDGS WWDHDCQRRL YVVCEFPF

SOURCE

E.coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-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

Human

BIOACTIVITY

Determined by the dose-dependent stimulation of the proliferation of TF-1 cells previously grown in media containing GM-CSF. The ED50 for this effect was observed at ≤ 7 ng/ml.

RESEARCH AREAS

Proliferation, Stem Cells & Differentiation, Bones, Skeletal, Cartilage

RECONSTITUTION

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

REFERENCES

Gehling, W.M. In Vitro differentiation of endothelial cells from AC133-positive progenitor cells. 2000. Blood; 95. Number 10.

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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