

TECHNICAL DATA SHEET

Recombinant Human SCGF-alpha (Carrier-Free)

Catalog Number: 21-9026

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human SCGF-alpha (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-alpha is a 33.9 kDa polypeptide containing 305 amino acid residues.

AMINO ACID SEQUENCE

GHGARGAER EWEGGWGGAQ EEEREREALM LKHLQEALGL PAGRGDENPA GTVEGKEDWE MEEDQGEEEE EEATPTPSSG PSPSPTPEDI
 VTYLGLRLAG LDAGLHQLHV RLHALDTRVY ELTQGLRQLR NAAGDTRDAV QALQEAQGRA EREHGRLEGC LKGLRLGHKC FLLSRDFEAQ
 AAAQARCTAR GGSQAQPADR QQMEALTRYL RAALAPYNWP VWLGVHRRRA EGLYLFENGQ RVSFFAWHRS PRPELGAQPS ASPHPLSPDQ
 PNGGTLENCV AQASDDGSWW DHDCQRRLYY VCEFPF

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

BIOACTIVITY

Determined by its inhibitory effect on the proliferation of TF-1 cells previously grown in media containing GM-CSF. The ED50 for this effect was observed at ≤ 2.5 ng/ml.

RESEARCH AREAS

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

RECONSTITUTION

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

REFERENCES

Stein A, Panjwani A, Sison C, Rosen L, Chugh R, Metz C, Bank M, Bloom O. Arch Phys Med Rehabil. 2013 Aug;94(8):1498-507. doi: 10.1016/j.apmr.2013.04.004. Hiraoka A, Yano Ki K, Kagami N, Takeshige K, Mio H, Anazawa H, Sugimoto S. Hematol J. 2001;2(5):307-15.

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.

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.