

TECHNICAL DATA SHEET

Recombinant Human CTGF (Carrier-free)

Catalog Number: 21-8503

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human CTGF (Carrier-free)

DESCRIPTION

Connective tissue growth factor (CTGF) belongs to the CCN family of secreted proteins associated with the Extracellular Matrix (ECM) and cell membrane. CTGF stimulates the proliferation and differentiation of chondrocytes, induces angiogenesis and promotes cell adhesion and migration. CTGF can bind to TGF-beta1 and BMP-4.

MOLECULAR MASS

Recombinant human CTGF is a 11.0 kDa protein of 97 amino acid residues.

AMINO ACID SEQUENCE

GKKCIRTPKI SKPIKFELSG CTSMKTYRAK FCGVCTDGRC CTPHRTTLP VEFKCPDGEV MKKNMMFIKT CACHYNCPGD NDIFESLYYR KMYGDMA

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

95 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

ENDOTOXIN LEVEL

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

AUTHENTICITY

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

CROSS REACTIVITY

Mouse, Rat

BIOACTIVITY

Determined by the dose-dependent stimulation of the proliferation of HUVEC cells. The expected ED₅₀ for this effect is 1.0 -2.0 µg/ml.

RESEARCH AREAS

Angiogenesis/Cardiovascular; Apoptosis; Cancer; Proliferation; Stem Cells & Differentiation; Wound Healing

RECONSTITUTION

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

REFERENCES

Grotendorst GR. 1997. Cytokine Growth Factor Rev. 8(3): 171-179. Leask A, Holmes A, Abraham DJ. 2002. Curr Rheumatol Rep. 4(2): 136-142.

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