



Recombinant Human CTGF

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-146S
Size:	5 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	1490
Synonyms:	CTGF; CCN2; NOV2; HCS24; IGFBP8

CTGF is a member of the CCN family of secreted cysteine rich regulatory proteins and is the major mitogenic and chemoattractant protein produced by umbilical vein and vascular endothelial cells. CTGF stimulates the proliferation and differentiation of chondrocytes, induces angiogenesis, promotes cell adhesion of fibroblasts, endothelial, and epithelial cells, and binds to IGF, TGF beta1, and BMP-4. Cell migration and adhesion are signaled through binding to specific cell surface integrins and to heparin sulfate proteoglycans CTGF (98 a.a.), a lower molecular weight isoform containing the C-terminal portion of the full length CTGF protein, exerts full heparin binding, cell adhesion, and mitogenic CTGF activity. Recombinant human CTGF is a 11.2 kDa protein of 98 amino acid residues.

Sequence

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GKKCIRTPKI SKPIKFELSG CTSMKTYRAK FCGVCTDGRG  
CTPHRTTLP VEFKCPDGEV MKNMMFIKT CACHYNCPGD  
NDIFESLYYR KMYGDMA
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Database References

Protein RefSeq:	NP_001892
Uniprot ID:	P29279
mRNA RefSeq:	NM_001901

Product Specifications

Expressed in	E. coli
Purity	> 95% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	97
MW:	11.0 kDa

Biological Activity: 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.



AVOID REPEATED FREEZE AND THAW CYCLES!