

## Recombinant Human CTGF

<b>CATALOG #:</b>	4702-20	20 µg
	4702-100	100 µg
	4702-1000	1 mg
<b>LOT #:</b>	_____	
<b>SOURCE:</b>	<i>E. coli</i>	
<b>PURITY:</b>	>95% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng per µg of CTGF.	
<b>MOL. WEIGHT:</b>	11.2 kDa	
<b>FORM:</b>	Sterile filtered and lyophilized without additives	

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. The solution can then be diluted into other aqueous buffers and store at 4°C for 1 week or – 20°C for future use.

### STORAGE CONDITIONS:

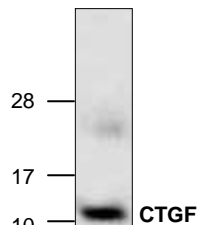
The lyophilized CTGF is best-stored desiccated below 0°C. Reconstituted CTGF should be stored at working aliquots at -20°C.

### DESCRIPTION:

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.

### BIOLOGICAL ACTIVITY:

The ED<sub>50</sub> determined by the dose-dependent stimulation of the proliferation of HUVEC cells is 1.0 – 2.0 µg/ml.



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Purity of recombinant human CTGF (2 µg) was analyzed by reduced SDS-PAGE electrophoresis.

### RELATED PRODUCTS:

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- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

#### Cell Fractionation System

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- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
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