

**Recombinant Human CTGF**  
**Catalog # PBG10061****Specification**

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**Recombinant Human CTGF - Product Information****Recombinant Human CTGF - Additional Information****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  $\beta$ 1, 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 11.0 kDa protein of 97 amino acid residues.

**Biological Activity**

Determined by the dose-dependent stimulation of the proliferation of HUVEC cells. The expected ED<sub>50</sub> for this effect is 1.0-2.0  $\mu$ g/ml.

**Authenticity**

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

**Endotoxin**

Endotoxin level is <0.1 ng/  $\mu$ g of protein (<1EU/  $\mu$ g).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Recombinant Human CTGF is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Human CTGF - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Recombinant Human CTGF - Images**