

## PRODUCT INFORMATION SUMMARY

### Human CTGF

Purified Factor	Product Number	HC50050A	5 ug
Purified Factor	Product Number	HC50050B	20 ug

#### DESCRIPTION:

Human Connective Tissue Growth factor (CTGF) is a cysteine-rich regulatory protein that is a major product of umbilical vein and vascular endothelial cells. CTGF stimulate chondrocyte proliferation and differentiation, promotes angiogenesis, and cell adhesion of fibroblasts, endothelial cells, and epithelial cells. CTGF binds to TGF beta 1, IGF and BMP-4. This factor signals via cell surface integrins. Human CTGF has molecular weight of 11.2 kDa, and 98 aa. residues.

**SOURCE:** E. Coli  
Purity > 95% by HPLC analysis  
Endotoxin < 0.1 ng per ug Human CTGF

#### BIOLOGICAL ACTIVITY:

Determined by ability to activate proliferation of HUVEC. @ 2.0 ug/mL for half-maximal activity.

#### HANDLING AND STORAGE:

Purified Human CTGF factor is provided lyophilized and free of additives. Store lyophilized, at -20° C. Reconstitute with **distilled water**, to a concentration of 100 ug/mL, then further dilute in PBS or other buffered solutions (**pH 7.2**). Store small aliquots at -20° C for long-term storage, at high concentration.

**Microcentrifuge before reconstitution.** Because ANTIGENIX factors are provided without carrier proteins like sucrose or BSA, the small quantities of lyophilized protein can adhere to the sides and cap of the vial during manufacture. **Before opening the vial**, we recommend microcentrifuging for 30 seconds to spin-down all material. (Small quantities are difficult to see in vial, and may appear as thin film).

#### WARRANTY:

Products sold hereunder are warranted only to conform to the Quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product.

**RESEARCH USE ONLY -NOT for DRUG USE**