CTGF
Recombinant Human Connective Tissue Growth Factor (98 aa)

Catalog No.	CRC604A	**Quantity:**	5 µg
	CRC604B		20 µg
	CRC604C		1.0 mg
	CRC604D		100 µg

Alternate Names: CCN2, Hypertrophic chondrocyte-specific protein 24, HCS24, IGF-binding protein 8, IGFBP8

Description: CTGF is a member of the cysteine rich regulatory proteins and is the major mitogenic and chemoattractant protein produced by umbilical vein and vascular endothelial cells. CTGF plays a role in chondrocyte proliferation and differentiation, cell adhesion in many cell types, and is related to platelet-derived growth factor.

Recombinant Human CTGF (98 aa) is a single, non-glycosylated polypeptide containing 98 amino acids. This lower molecular weight isoform contains the C-terminal portion of the full length CTGF protein and exerts full heparin binding, cell adhesion, and mitogenic CTGF activity.

Gene ID: 1490

UniProt ID: P29279

Source: *E. coli*

Molecular Weight: 11.2 kDa (98 aa)

Formulation: Lyophilized from a sterile-filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA).

Purity: ≥ 90% by reducing and non-reducing SDS-PAGE

Endotoxin Level: < 1 EU/µg protein by kinetic LAL

Biological Activity: ED_{50} ≤ 2,000 ng/ml, determined by the dose-dependant proliferation of HUVEC cells.

Specific Activity: ≥ 500 Units/mg

Amino Acid Sequence: MGKKCIRTPK ISKPIKFELS GCTSMKTYRA KFCGVCTDGR CCTPHRTTTL PVEFKCPDGE VMKKNMMFIK TCACHYNCPG DNDIFESLYY RKMYGDMA

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/ml. **DO NOT VORTEX.** Allow several minutes for complete reconstitution. Further dilutions should be made in appropriate buffered solutions.

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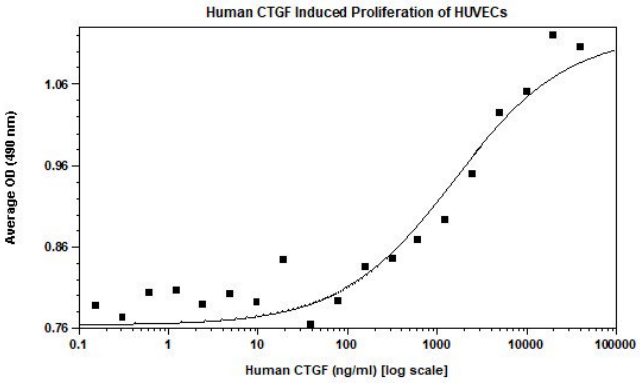
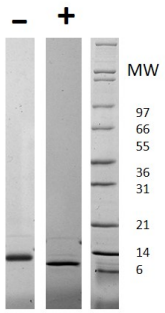
Storage & Stability: Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store as supplied at -20°C to -80°C for up to 1 year.

Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, freeze in working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution. **Avoid repeated freeze-thaw cycles.**





Human CTGF
Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human CTGF has a predicted MW of 11.2 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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