Recombinant Human CTGF protein, His-tagged

Cat. No. CTGF-392H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CTGF protein (Gln27-Ala349), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	323
Description	Connective Tissue Growth Factor (CTGF), also known as CCN2, is a member of the CCN (CCN1-6) family of modular matricellular proteins. Like other CCN proteins, mature human CTGF consists of IGF-binding protein domain, a vWF-C domain, a TSP-1 domain, and a cysteine knot heparin-binding domain. CTGF promotes proliferation and differentiation of chondrocytes. Mediates heparin- and divalent cation-dependent cell adhesion in many cell types including fibroblasts, myofibroblasts, endothelial and epithelial cells. Enhances fibroblast growth factor-induced DNA synthesis. Analysis of CCN2 function in vivo has focused primarily on its key role as a mediator of excess ECM synthesis in multiple fibrotic diseases.
Form	Lyophilized from 0.22 um filtered solution in Tris with Potassium glutamate and Arginine, pH7.0, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 37.4 kDa. The protein migrates as 38-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

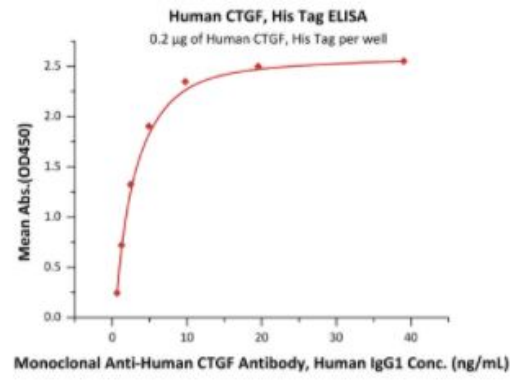
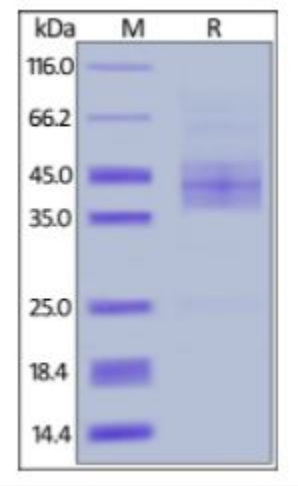
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CTGF
Official Symbol	CTGF
Synonyms	CTGF; connective tissue growth factor; CCN2; IGFBP8; IBP-8; IGFBP-8; CCN family member 2; IGF-binding protein 8; hypertrophic chondrocyte-specific protein 24; insulin-like growth factor-binding protein 8; NOV2; HCS24; MGC102839
Gene ID	1490
mRNA Refseq	NM_001901
Protein Refseq	NP_001892
MIM	121009

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UniProt ID	P29279
Bioactivity-ELISA of CTGF-392H	 Immobilized Human CTGF, His Tag at 2 μg/mL (100 μL/well) can bind Monoclonal Anti-Human CTGF Antibody, Human IgG1 with a linear range of 0.3-5 ng/mL (QC tested).
SDS-PAGE of CTGF-392H	 Human CTGF, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than

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