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Datasheet for ABIN7013364

## CTGF Protein (AA 27-349) (His tag,AVI tag,Biotin)

### 2 Images

#### Overview

Quantity:	200 µg
Target:	CTGF
Protein Characteristics:	AA 27-349
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTGF protein is labelled with His tag,AVI tag,Biotin.

#### Product Details

Sequence:	AA 27-349
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

#### Target Details

Target:	CTGF
Alternative Name:	CTGF ( <a href="#">CTGF Products</a> )
Background:	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

## Target Details

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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.

Molecular Weight: 39.2 kDa

NCBI Accession: [NP\\_001892](#)

Pathways: [Regulation of Lipid Metabolism by PPARalpha](#), [Positive Regulation of Endopeptidase Activity](#), [Growth Factor Binding](#)

## Application Details

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Comment: Ready-to-use Avitag<sup>TM</sup> biotinylated protein:  
The product is exclusively produced using the Avitag<sup>TM</sup> technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

Restrictions: For Research Use only

## Handling

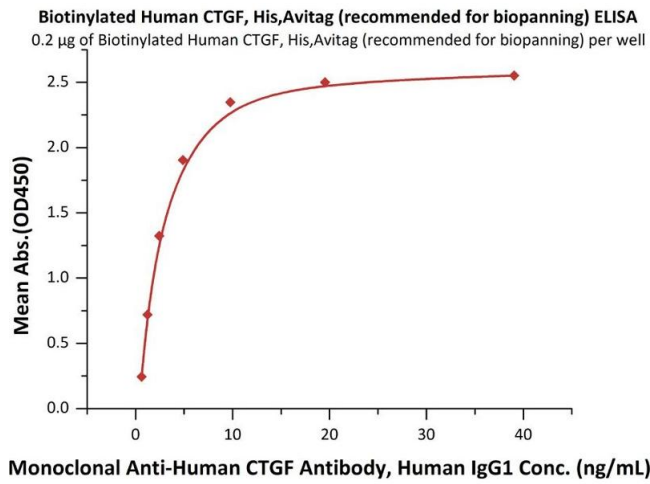
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Format: Lyophilized

Buffer: Tris with Potassium glutamate and Arginine, pH 7.0

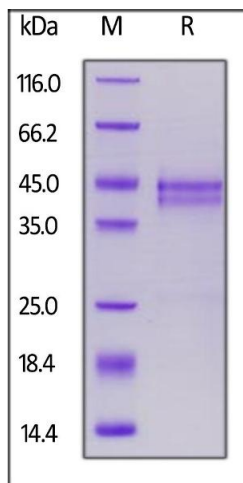
Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C



### ELISA

**Image 1.** Immobilized Biotinylated Human CTGF, His,Avitag (recommended for biopanning) (ABIN6253582) at 2 µg/mL (100 µL/well) on streptavidin precoated (0.2 µg/well) plate, can bind Monoclonal A CTGF Antibody, Human IgG1 with a linear range of 0.6-5 ng/mL (QC tested).



### SDS-PAGE

**Image 2.** Biotinylated Human CTGF, His,Avitag (recommended for biopanning) on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .