

Bioactive

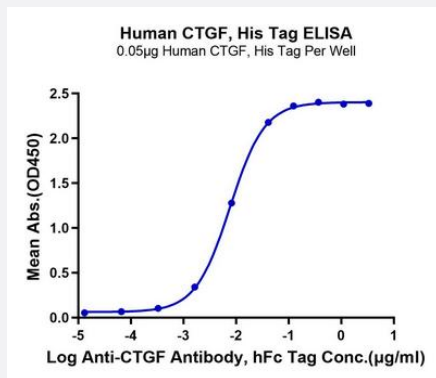
HuPro®

# CTGF (Human) Recombinant Protein

Catalog # P9699

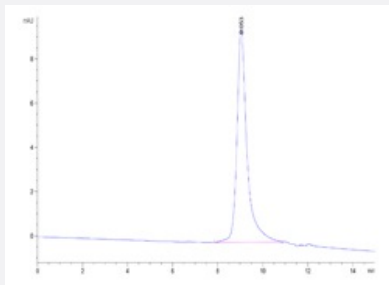
Size 100 ug

## Applications



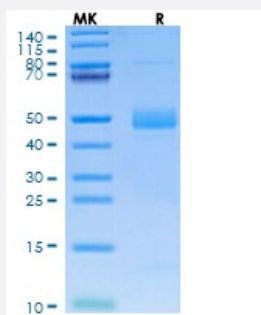
### Enzyme-linked Immunoabsorbent Assay

Immobilized Human CTGF, His Tag at 0.5 ug/mL (100 uL/well) on the plate. Dose response curve for Anti-CTGF Antibody, hFc Tag with the EC50 of 7.7 ng/mL determined by ELISA.



### SEC-HPLC

The purity of Human CTGF is greater than 95% as determined by SEC-HPLC.



### Tris-Bis PAGE

Human CTGF on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

## Specification

|                                |                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Human CTGF (Q5M8T4, 27 a.a. - 349 a.a.) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells.                                                                                                                                                                                                                             |
| <b>Sequence</b>                | QNCSGPCRCPDEPAPRCPAGVSLVLDGCGCCRVCAKQLGELCTERDPCDPHKGLFCDFGSP<br>ANRKIGVCTAKDGAPCIFGGTVYRSGESFQSSCKYQCTCLDGAVGCMPLCSMDVRLPSPDCPF<br>PRRVKLPGKCCEEWVCDEPKDQTVVGPALAAYRLEDTFGPDPMTIRANCLVQTTEWSACSKTC<br>GMGISTRVTNDNASCRLEKQSRLCMVRPCEADLEENIKKGKKCIRTPKISKPIKFELSGCTSMKTY<br>RAKFCGVCTDGRCCTPHRTTLPVEFKCPDGEVMKKNNMMFIKTCACHYNCPGDNDIFESLYRK<br>MYGDM |
| <b>Host</b>                    | Human                                                                                                                                                                                                                                                                                                                                                 |
| <b>Theoretical MW (kDa)</b>    | 36.56                                                                                                                                                                                                                                                                                                                                                 |
| <b>Form</b>                    | Lyophilized                                                                                                                                                                                                                                                                                                                                           |
| <b>Preparation Method</b>      | Mammalian cell (Expi293, high-yield transient HEK293) expression system                                                                                                                                                                                                                                                                               |
| <b>Purity</b>                  | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC                                                                                                                                                                                                                                                                                     |
| <b>Endotoxin Level</b>         | < 1 EU per 1 ug of protein (determined by LAL method)                                                                                                                                                                                                                                                                                                 |
| <b>Activity</b>                | The EC <sub>50</sub> was 7.7 ng/mL, measured by ELISA at 0.5 ug/mL.                                                                                                                                                                                                                                                                                   |
| <b>Quality Control Testing</b> | SEC-HPLC and Tris-Bis PAGE<br>SEC-HPLC<br>The purity of Human CTGF is greater than 95% as determined by SEC-HPLC.<br>Tris-Bis PAGE<br>Human CTGF on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.                                                                                                                            |
| <b>Recommend Usage</b>         | Biological Activity<br>ELISA<br>SDS-PAGE<br>The optimal working dilution should be determined by the end user.                                                                                                                                                                                                                                        |
| <b>Storage Buffer</b>          | Lyophilized from sterile distilled Water is > 100 ug/mL                                                                                                                                                                                                                                                                                               |
| <b>Storage Instruction</b>     | Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                        |
| <b>Note</b>                    | Result of bioactivity analysis                                                                                                                                                                                                                                                                                                                        |

## Applications

- Enzyme-linked Immunoabsorbent Assay

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- Functional Study

- SDS-PAGE

## Gene Info — CTGF

|                    |                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">1490</a>                                                                                         |
| Protein Accession# | <a href="#">Q5M8T4</a>                                                                                       |
| Gene Name          | CTGF                                                                                                         |
| Gene Alias         | CCN2, HCS24, IGFBP8, MGC102839, NOV2                                                                         |
| Gene Description   | connective tissue growth factor                                                                              |
| Omim ID            | <a href="#">121009</a>                                                                                       |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                    |
| Other Designations | OTTHUMP00000017213 hypertrophic chondrocyte-specific protein 24 insulin-like growth factor-binding protein 8 |

## Disease

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- [Aortic Valve Stenosis](#)
- [Biliary Atresia](#)
- [Calcinosis](#)
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- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
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- [Esophageal Neoplasms](#)
- [Fibrosis](#)
- [Genetic Predisposition to Disease](#)
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