Connective Tissue Growth Factor (CTGF) Recombinant Protein

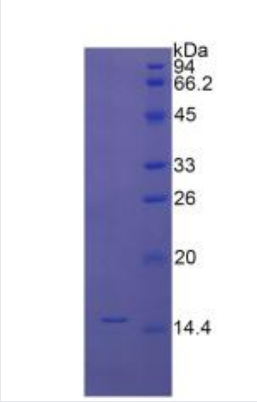
PRODUCT OVERVIEW

Product Name	Connective Tissue Growth Factor (CTGF), Recombinant Protein
Full Product Name	Recombinant Connective Tissue Growth Factor (CTGF)
Product Gene Name	CTGF recombinant protein
Sequence	The target protein is fused with N-terminal His-Tag, its sequence is listed below. MGHHHHHHSG SEF-LEENIK K GKKCIRTPKI AKPVKFELSG CTSVKTYRAK FCGVCTDGRC CTPHRTTTLP VEFKCPDGEI MKKNMMFIKT CACHYNCPGD NDIFESLYYR KMYGD
Host	E Coli
Form/Format	Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Purity/Purification	> 95%
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the targetprotein. The loss rate was determined by accelerated thermal degradation test,that is, incubate the protein at 37 degree C for 48h, and no obvious degradation andprecipitation were observed. (Referring from China Biological Products Standard,which was calculated by the Arrhenius equation.) The loss of this protein is lessthan 5% within the expiration date under appropriate storage condition.
Matching Pairs	Biotin Conjugated Antibody: CTGF (MBS2002470) Immunogen: CTGF (MBS2010435)
Matching Pairs	Unconjugated Antibody: CTGF (MBS2007040) Immunogen: CTGF (MBS2010435)
Matching Pairs	FITC Conjugated Antibody: CTGF (MBS2017099) Immunogen: CTGF (MBS2010435)
Matching Pairs	APC-CY7 Conjugated Antibody: CTGF (MBS2034975) Immunogen: CTGF (MBS2010435)
Matching Pairs	PE Conjugated Antibody: CTGF (MBS2034976) Immunogen: CTGF (MBS2010435)
Matching Pairs	APC Conjugated Antibody: CTGF (MBS2034977) Immunogen: CTGF (MBS2010435)
Matching Pairs	Cy3 Conjugated Antibody: CTGF (MBS2034978) Immunogen: CTGF (MBS2010435)
Matching Pairs	HRP Conjugated Antibody: CTGF (MBS2034979) Immunogen: CTGF (MBS2010435)
Molecular Weight	13.2kDa
Chromosome Location	Chromosome: 10; NC_000076.6 (24595442..24598683). Location: 10 A3-B1; 10 11.84 cM
3D Structure	ModBase 3D Structure for P29268
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Organism	Mus musculus (Mouse)
Expression System	Prokaryotic expression

Residues	Leu245~Asp346 (Accession # P29268) with N-terminal His-Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for CTGF recombinant protein	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)
Related Product Information for CTGF recombinant protein	MBS2010435 is a recombinant protein targeting CTGF. Also known as Recombinant Connective Tissue Growth Factor (CTGF). Host: E Coli.
Other Notes	Small volumes of CTGF recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

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KGKKCIRTPK IAKPVKFELS GCTSVKTYRA KFCGVCTDGR CCTPHRTTTL
PVEFKCPDGE IMKKNMMFIK TCACHYNCPG DNDIFESLYY RKMYGD
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Sequence Information of CTGF recombinant protein



SDS-Page of CTGF recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTGF. It may not necessarily be applicable to this product.

NCBI GI #	171846283
NCBI GeneID	14219
NCBI Accession #	NP_034347.2
UniProt Primary Accession #	P29268
UniProt Secondary Accession #	Q922U0; G5E830
UniProt Related Accession #	P29268
GenBank Nucleotide #	NM_010217.2
NCBI Official Full Name	connective tissue growth factor
NCBI Official Synonym Full Names	connective tissue growth factor
NCBI Official Symbol	Ctgf
NCBI Official Synonym Symbols	Ccn2; Hcs24; Fisp12; fisp-12
UniProt Protein Name	Connective tissue growth factor
UniProt Synonym Protein Names	CCN family member 2; Hypertrophic chondrocyte-specific protein 24; Protein FISP-12
Protein Family	Connective tissue growth factor
UniProt Gene Name	Ctgf

UniProt Synonym Gene Names	Ccn2; Fisp-12; Fisp12; Hcs24
UniProt Entry Name	CTGF_MOUSE
NCBI Protein Information	connective tissue growth factor; CCN family member 2; fibroblast inducible secreted protein; fibroblast inducible secreated protein; hypertrophic chondrocyte-specific protein 24; hypertrophic chondrocyte-specific gene product 24; Connective tissue growth factor precursor (CTGF) (FISP-12 protein) (Hypertrophic chondrocyte-specific protein 24)
UniProt Comments for CTGF	CTGF: Major connective tissue mitoattractant secreted by vascular endothelial cells. 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. Belongs to the CCN family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Cell adhesion; Secreted, signal peptide Cellular Component: Golgi apparatus; extracellular space; proteinaceous extracellular matrix; cis-Golgi network; intracellular membrane-bound organelle; perinuclear region of cytoplasm; extracellular region; cell cortex; cytosol Molecular Function: heparin binding; integrin binding; insulin-like growth factor binding; growth factor activity; fibronectin binding Biological Process: integrin-mediated signaling pathway; ossification; cell migration; fibroblast growth factor receptor signaling pathway; cell-matrix adhesion; positive regulation of collagen biosynthetic process; positive regulation of JNK cascade; positive regulation of caspase activity; cell-cell signaling; positive regulation of stress fiber formation; positive regulation of cell proliferation; tissue homeostasis; regulation of chondrocyte differentiation; angiogenesis; positive regulation of protein amino acid phosphorylation; regulation of cell growth; cell differentiation; cell adhesion; positive regulation of cell differentiation; positive regulation of cell activation; cartilage condensation; lung development
Research Articles on CTGF	**1.** Loss of CCN2 resulted in resistance to the increases in collagen production and myofibroblast recruitment that are caused by loss of PTEN.
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