

CTGF active protein

CTGF protein

CATALOG # AAA75454	HOST Human
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PRODUCT SYNONYMS

CTGF; CTGF protein; CCN2 protein; HCS24 protein; Hypertrophic chondrocyte-specific protein 24 protein; Connective Tissue Growth Factor protein; CTGF active protein

PRODUCT SPECIFICATIONS

Host	Human
Purity/Purification	> 95% pure
Form/Format	Lyophilized from 10 mM NaC2H3O2, pH 6.0. Reconstitute in water to a concentration of 0.1 - 1.0 mg/ml.
Concentration	5ug lyophilized (varies by lot)
Sequence	Region of CTGF protein corresponds to amino acids MGKKCI RTPKISKPIK FELSGCTSMK TYRAKFCGVC TDGRCCTPHR TTTLPVEFKC PDGEVMKKNM MFIKTCACHY NCPGDNDIFE SLYYRKMYGD MA.
Sequence Length	344
Protein Type	Recombinant
Biological Significance	CTGF is a member of the CCN family of secreted cysteine rich regulatory proteins and is the major mitogenic and chemoattractant protein produced by umbilical vein and vascular endothelial cells. CTGF stimulates the proliferation and differentiation of chondrocytes, induces angiogenesis, promotes cell adhesion of fibroblasts, endothelial, and epithelial cells, and binds to IGF, TGF beta1, and BMP-4. Cell migration and adhesion are signaled through binding to specific cell surface integrins and to heparin sulfate proteoglycans. CTGF (98 a.a.), a lower molecular weight isoform containing the C-terminal portion of the full length CTGF protein, exerts full heparin binding, cell adhesion, and mitogenic CTGF activity.
Bioactivity	Determined by the dose-dependent stimulation of the proliferation of HUVEC cells. The expected ED50 for this effect is 1.0-2.0 ug/ml.
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Expression System	E Coli
Preparation and Storage	Store at 4 degree C until reconstitution. Following reconstitution aliquot and freeze at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for CTGF active protein	Purified recombinant Human CTGF protein
Product Categories/Family for CTGF active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	45383590
NCBI GeneID	374135

NCBI Accession #	NP_989605.1
NCBI GenBank Nucleotide #	NM_204274.1
UniProt Accession #	Q98TQ8 ; F1NBR5
Molecular Weight	11.2 kDa
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
NCBI Protein Information	connective tissue growth factor
UniProt Protein Name	Connective tissue growth factor
UniProt Gene Name	CTGF
UniProt Entry Name	Q98TQ8_CHICK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-active-protein/ctgf/75454>