

Recombinant Human CTGF, His-tagged

Cat. No. CTGF-2605H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Connective Tissue Growth Factor with His tag is expressed in HEK293 cell.
Species	Human
Source	HEK293
ProteinLength	329aa
Description	Connective Tissue Growth Factor belongs to the CCN family of proteins. The CCN family presently consists of six members in human also known as: Cyr61 (Cystein rich 61), CTGF (Connective Tissue Growth Factor), Nov (Nephroblastoma Overexpressed gene), WISP-1, 2 and 3 (Wnt-1 Induced Secreted Proteins). The CCN genes encode secreted proteins associated with the Extracellular Matrix (ECM) and cell membrane. CCN proteins are matricellular proteins which are involved in the regulation of various cellular functions including: proliferation, differentiation, survival, adhesion and migration.
Form	Filtered (0.4 µm) and lyophilized in 0.05 M phosphate buffer, 0.075 M NaCl, pH 7.4.
Molecular Mass	36 kDa
AA Sequence	QNCSGPCRCP DEAPRCPAG VSLVLDGCGC CRVCAKQLGE LCTERDPCDP HKGLFCHFGS PANRKIGVCT AKDGAPCIFG GTVYRSGESF QSSCKYQCTC LDGAVGCMPL CSMDVRLPSP DCPFPRRVKL PGKCCEEWVC DEPKDQTVVG

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PALAAAYRLED TFGPDPTMIR ANCLVQTTEW SACSKTCGMG ISTRVTNDNA
 SCRLEKQSRL CMVRPCEADL EENIKKGKKC IRTPKISKPI KFELSGCTSM
 KTYRAKFCGV CTDGRCCTPH RTTTL PVEFK CPDGEVMKKN MMFIKTCACH
 YNCPGDNDIF ESLYYRKMVG DMAHHHHHHH

Endotoxin	<1.0 EU/g
Purity	Purity as determined by densitometric image analysis: >95%.
Applications	Cell culture and/or animal studies, ELISA, Western blotting.
Quality Control Test	BCA to determine quantity of the protein. SDS PAGE to determine purity of the protein. LAL TEST to determine quantity of the endotoxin.
Storage	Store the lyophilized protein at –80°C. Lyophilized protein remains stable until the expiry date when stored at –80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at –80°C for long term storage. Reconstituted protein can be stored at 4°C for a week.
Reconstitution	Add deionized water to prepare a working stock solution of 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

GENE INFORMATION

Gene Name	CTGF connective tissue growth factor [Homo sapiens]
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;

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	insulin-like growth factor-binding protein 8; NOV2; HCS24; MGC102839;
Gene ID	1490
mRNA Refseq	NM_001901
Protein Refseq	NP_001892
MIM	121009
UniProt ID	P29279
Chromosome Location	6q23.2
Pathway	Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; PPARA Activates Gene Expression, organism-specific biosystem; Regulation of Lipid Metabolism by Peroxisome proliferator-activated receptor alpha (PPARalpha), organism-specific biosystem;
Function	fibronectin binding; growth factor activity; heparin binding; insulin-like growth factor binding;