

Recombinant Human CTGF, 182-250aa, His-tagged

Cat. No. CTGF-29H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

The Connective Tissue Growth Factor amino acids 182-250, produced in *E.Coli*, is a fusion protein with His Tag (4 kDa), having a total molecular mass of 15 kDa.

Species

Human

Source

E.coli

ProteinLength

182-250 a.a.

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. They are expressed in derivatives of the three embryonic sheets and are implicated in the development of kidney, nervous system, muscle, bone marrow, cartilage and bone. During adulthood, they are implicated in wound healing, bone fracture repair, and pathologies such as: fibrosis, vascular ailments and tumorigenesis. Full length secreted CCN proteins can show an antiproliferative activity, whereas truncated isoforms are likely to stimulate proliferation and behave as oncogenes.

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Purity	Greater than 90.0% as determined by SDS-PAGE.
Formulation	Lyophilized without any additives.
Solubility	It is recommended to reconstitute the lyophilized CTGF in sterile 18MΩ-cm H ₂ O not less than 100 g/ml, which can then be further diluted to other aqueous solutions.
Applications	• Antibody Production • Protein Assay • Positive control for Western Blot.
Storage	Lyophilized CTGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CTGF should be stored at 4°C between 2-7 days and for future use below -18°C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	CTGF connective tissue growth factor [Homo sapiens]
Synonyms	CTGF; connective tissue growth factor; IGFBP8, CCN2; NOV2; HCS24; MGC102839; hypertrophic chondrocyte-specific protein 24; insulin-like growth factor-binding protein 8; OTTHUMP00000017213; Hypertrophic chondrocyte-specific protein 24
Gene ID	1490
mRNA Refseq	NM_001901
Protein Refseq	NP_001892
MIM	121009
UniProt ID	P29279

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Chromosome Location	6q23.2
Function	growth factor activity; heparin binding; insulin-like growth factor binding; integrin binding; protein binding

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