

Active Recombinant Human Connective Tissue Growth Factor

Cat. No. CTGF-555H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CTGF has multiple effects on development and differentiation. H-CTGF is comprised of 98 amino acids with a molecular weight of 11.2 kDa.
Species	Human
Source	E.coli
Description	CTGF belongs to the CCN family of secreted proteins. CTGF is a member of cysteine rich regulatory proteins playing an important role in mitogenic and chemotaxis. Each protein has an IGF-binding domain, a thrombospondin type 1 domain and cysteine knot region.
Form	Sterile filtered and lyophilized from 1.0 mg/ml 10 mM NaAcetate, pH 6.0.
Purity	Purity Greater than 98% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Bio-activity	Human CTGF is fully biologically active when compared to standard. Activity is determined by the dose-dependent stimulation of the proliferation of HUVEC cells. The expected ED50 is 0.08 ?C 1.8 µg/ml.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.
Solubility	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is

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recommended to reconstitute the lyophilized product at a concentration of 0.1 mg/ml with 5 mM NaAcetate, pH 6.0.

Purity Greater than 98% as determined by

Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.

Protein Content determined by

UV spectroscopy at 280 nm. Analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard.

Endotoxin Level

Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.

Amino acid sequence

MGKKCIRTPK ISKPIKFELS GCTSMKTYRA KFCGVCTDGR CCTPHRTTTL
PVEFKCPDGE VMKKNNMMFIK TCACHYNCPG DNDIFESLYY RKMYGDMA

Storage

Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

GENE INFORMATION

Gene Name

CTGF connective tissue growth factor [Homo sapiens]

Official Symbol

CTGF

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

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mRNA Refseq	NM_001901
Protein Refseq	NP_001892
MIM	121009
UniProt ID	P29279
Chromosome Location	6q23.2
Function	growth factor activity; heparin binding; insulin-like growth factor binding; integrin binding; protein binding

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