

BACKGROUND

Connective Tissue Growth Factor (CTGF) is a member of cysteine rich regulatory proteins that are both mitogenic and chemotactic. Each protein has an Insulin-like Growth Factor (IGF)-binding domain, a thrombospondin type 1 domain and cysteine knot region. CTGF has multiple effects on development and differentiation.

Recombinant human CTGF is a non-glycosylated protein, comprised of 98 amino acids, with a molecular weight of 11.2 kDa.

Alternative Names:

CCN2, HCS24

Amino Acid Sequence:

MGKKCIRTPK ISKPIKFELS GCTSMKTYRA KFCGVCTDGR
CCTPHRTTTL PVEFKCPDGE VMKKNMMFIK TCACHYNC PG
DNDIFESLYY RKMYGDMA

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

Recombinant human CTGF is lyophilized from 1.0 mg/ml 10 mM NaAcetate, pH 6.0.

Stability:

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

Reconstitution:

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

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:

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

Biological Activity:

The activity is determined by the dose-dependent stimulation of HUVEC proliferation and is typically 1-2 ug/ml.

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

