



Recombinant Human CTGF
(Connective Tissue Growth Factor)

Catalog Number: 100-60
Accession Number: P29279

Specifications and Uses:

Alternate Names: CCN2, HCS24

Description:

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, containing 98 amino acids, with a molecular weight of 11.2 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant human CTGF is lyophilized from 1.0 mg/mL 10 mM NaOAc (sodium acetate), pH 6.0. 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 NaOAc (sodium acetate), pH 6.0**.

Protein Content and Purity (typically ≥ 98%) determined by:

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

Biological Activity:

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

AA Sequence:

MGKKCIRTPK ISKPIKFELS GCTSMKTYRA KFCGVCTDGR CCTPHRTTTL PVEFKCPDGE VMKKNMMFIK
TCACHYNCPG DNDIFESLYY RKMVGDMA

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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