GFH60 Recombinant Human CTGF

Description

Connective Tissue Growth Factor (CTGF) is a mitogen that is secreted by vascular endothelial cells in response to basic fibroblast growth factor (FGF-2) or vascular endothelial growth factor (VEGF). CTGF promotes cell growth, migration, adhesion, and survival of endothelial cells. CTGF is also important during osteogenesis, chondrogenesis, and skeletogenesis. CTGF has an insulin-like growth factor binding protein (IGFBP) domain, a thrombospondin type 1 repeat (TSR) domain, and a C-terminal cysteine knot motif.

Length	98 aa
Molecular Weight	11.2 kDa
Source	E. coli
Accession Number	P29279
Purity	≥90% determined by reducing and non-reducing SDS-PAGE

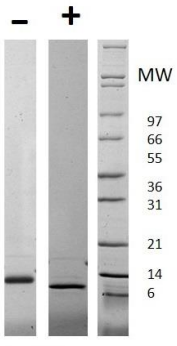
Specifications

Alternative Names	Connective Tissue Growth Factor, IGF-binding protein 8, IGFBP8, IGFBP-8, IBP-8, CCN2, HCS24,insulin-like growth factor-binding protein HCS24, hypertrophic chondrocyte-specific protein 24, NOV2, CCN family member, 2MGC102839
Biological Activity	Human CTGF is fully biologically active when compared to standard. The activity is determined by the dose-dependent induction of HUVEC cells proliferation and it is typically less than 2 ng/ml. This corresponds to an expected specific activity of 500 units/mg.
Endotoxin Level	≤1.00 EU/µg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
AA Sequence	MGKKCIRTPK ISKPIKFELS GCTSMKTYRA KFCGVCTDGR CCTPHRTTTL PVEFKCPDGE VMKKNMMFIK TCACHYNCPG DNDIFESLYY RKMYGDMA

Preparation and 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 with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 µg of protein was loaded in each lane. Human CTGF has a predicted Mw of 11.2 kDa.