
Human Connective Tissue Growth Factor (CTGF) Recombinant Protein

Catalog Number: 14-8503

RUO: For Research Use Only

Product Information

Contents: Human Connective Tissue Growth Factor (CTGF)
Recombinant Protein

REF Catalog Number: 14-8503

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in a sterile environment

Source: *E. coli*-expressed amino acids Lys251- Ala349
(Accession # CAG46534)

Molecular Mass: 11.2 kDa

Purity: Greater than 98%, as determined by SDS-PAGE


Endotoxin Level: Less than 0.01 ng/ug cytokine as determined by the LAL assay.

Bioactivity: The ED₅₀, as determined by the dose-dependent induction of HUVEC cell proliferation, is 1.6 ug/ml, corresponding to a specific activity of 6 x 10² Units/mg.

Formulation: Sterile liquid; phosphate buffered saline, pH 7.2, 1.0% BSA. 0.22 µm filtered.

 Temperature Limitation: Store at less than or equal to -70°C.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

Description

Connective Tissue Growth Factor (CTGF), also called CCN2, is a member of the CCN family. CTGF is a secreted protein produced by umbilical veins and vascular endothelial cells. CTGF possesses an Insulin-like Growth Factor (IGF)-binding domain, a thrombospondin type 1 domain, and a cysteine knot region. CTGF plays important roles in the proliferation and differentiation of chondrocytes, induces angiogenesis, and promotes cell adhesion in fibroblasts, endothelial, and epithelial cells.

Applications Reported

Recombinant Human CTGF has been reported for use in cytokine bioassays.

Applications Tested

This reagent has been tested in bioassays using the HUVEC cell line. The ED₅₀, as determined by the dose-dependent induction of HUVEC cell proliferation, is 1.6 ug/ml, corresponding to a specific activity of 6 x 10² Units/mg.

References

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Bradham, D. M. Igarashi, A. Potter, R. L. Grotendorst, G. R. Connective tissue growth factor: a cysteine-rich mitogen secreted by human vascular endothelial cells is related to the SRC-induced immediate early gene product CEF-10. *J. Cell Biol.* 1991; 114: 1285-1294.

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