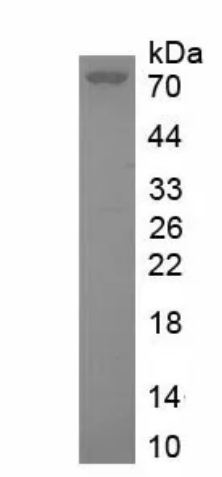
# Active Connective Tissue Growth Factor (CTGF)

*Catalog#:PER12003*

## 概述（Summary）

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|---|---|
| **别称（Alternative Names）** | CCN2; HCS24; IGFBP8; NOV2; Insulin-Like Growth Factor-Binding Protein 8; Hypertrophic Chondrocyte-Specific Protein 24; CCN Family Member 2 |
| **纯度（Purity）** | Greater than 90% as determined by reducing SDS-PAGE. |
| **内毒素（Endotoxin level）** | Please contact with the lab for this information |
| **蛋白构建（Construction）** | 【Gln25-Ala347】 |
| **Accession #** | Q9R1E9 |
| **表达宿主（Host）** | E.coli |
| **种属（Species）** | Rattus norvegicus (Rat) |
| **预测分子量（Predicted MW）** | 65.4 kDa |
| **制剂（Form）** | Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300. |
| **运输方式（Shipping）** | The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below. |
| **稳定性&储存（Stability &Storage）** | 12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles. |
| **复溶（Reconstitution）** | Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex. |
| **背景介绍（References）** | Major connective tissue mitoattractant secreted by vascular endothelial cells. Promotes proliferation and differentiation of chondrocytes. Mediates heparin- and divalent cation-dependent cell adhesion in many cell types including fibroblasts, myofibroblasts, endothelial and epithelial cells. Enhances fibroblast growth factor-induced DNA synthesis. |

## 电泳图（SDS-PAGE image）




Greater than 90% as determined by reducing SDS-PAGE.

## 活性图（Bioactivity image）

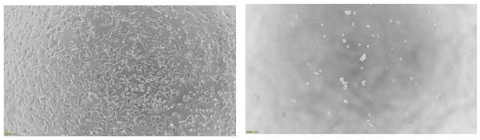



**Figure 1.The adhere effect of recombinant rat CTGF on Balb/3T3 cells**
(A) Balb/3T3 cells were seeded into the well containting CTGF 1.25 ug/ml and incubated for 2 h at 37 ℃;
(B) Balb/3T3 cells were seeded into the well without CTGF and incubated for 2 h at 37 ℃;

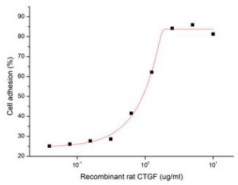



**Figure 2. The adhere effect of CTGF on Balb/3T3 cells**

Connective Tissue Growth Factor (CTGF), also known as CCN2 is a matricellular protein of the CCN family of extracellular matrix-associated heparin-binding proteins. CTGF has important roles in many biological processes, including cell adhesion, migration, proliferation, angiogenesis, skeletal development, and tissue wound repair, and is critically involved in fibrotic disease and several forms of cancers. As CTGF has the function of cell adhesion, we measure the activity of recombinant rat CTGF by the ability of the immobilized protein to support the adhesion of Balb/3T3 mouse embryonic fibroblast cell. When 5 x 104 cells/well are added to different concentrations of recombinat rat CTGF coated plates, cells will adhere after 2 hour incubation at 37 ℃. The adhesion of Balb/3T3 after 2 hour incubation at 37 ℃ observed by inverted microscope was shown in Figure 1. Cell adherent was in a dose dependent manner, the result was shown in Figure 2, the EC50 was 1 ug/ml.

## 注意事项（Note）

For Research Use Only , Not for Diagnostic Use.