



# Recombinant Protein Technical Manual

## Recombinant Human CTGF/CCN2 Protein (Fc Tag)

RPES0970

### Product Data:

**Product SKU:** RPES0970

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P29279

### Protein Information:

**Molecular Mass:** 62.6 kDa

**AP Molecular Mass:** 88 kDa

**Tag:** C-Fc

**Bio-activity:**

**Purity:** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Connective tissue growth factor;CCN family member 2;Hypertrophic chondrocyte-specific protein 24;Insulin-like growth factor-binding protein 8;CTGF;IGFBP8

## Immunogen Information:

**Sequence:** Gln27-Ala349

## Background:

CTGF belongs to the CCN (CTGF/Cyr61/Cef10/NOVH) protein family, which is comprised of six secreted proteins that reside in the extracellular matrix (ECM). CTGF causes a variety of cellular responses including reduced cell adhesion and enhanced cell migration and proliferation. CTGF has also been shown to be essential for epithelial to mesenchymal transition (EMT), a process whereby normal functioning cells morph into ones that produce mainly scar tissue (of which collagen is the major protein component).