

CTGF/CCN2 Protein, Human, Recombinant (HEK293, His)

General Information

Synonyms:	CTGF;Connective tissue growth factor
Protein Construction:	Gln27-Ala349
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q5M8T4
Molecular Weight:	33-45 KDa (reducing condition)
AA Sequence:	Gln27-Ala349

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM PB, 300 mM NaCl, pH7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Connective Tissue Growth Factor (CTGF), also known as CCN2, is a member of the CCN (CYR61/CTGF/NOV) family of secreted matricellular proteins. Like other CCN proteins, mature human CTGF consists of IGF-binding protein domain, a vWF-C domain, a TSP-1 domain, and a cysteine knot heparin-binding domain. CTGF has various biological functions, including cell adhesion, migration, proliferation, differentiation, and ECM production, and participates in the development of many organs under normal physiologic conditions. CTGF is pathologically

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viewed as a central mediator of tissue remodeling and fibrosis of various organs, including the lung, heart, liver, and kidney.

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