Human CTGF/CCN2 Protein

Cat. No. CGF-HM101

Description

Source	Recombinant Human CTGF/CCN2 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Gln27-Ala349.
Accession	Q5M8T4
Molecular Weight	The protein has a predicted MW of 36.56 kDa. Due to glycosylation, the protein migrates to 45-60 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

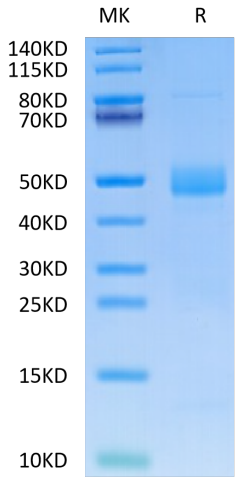
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Connective tissue growth factor (CTGF) is a member of the CCN matricellular protein family, consisting of four domains, that regulates the signaling of other growth factors and promotes kidney fibrosis.CTGF can simultaneously interact with several factors with its four domains. The microenvironment differs depending on the types of cells and tissues and differentiation stages of these cells.

Assay Data

Tris-Bis PAGE



Human CTGF on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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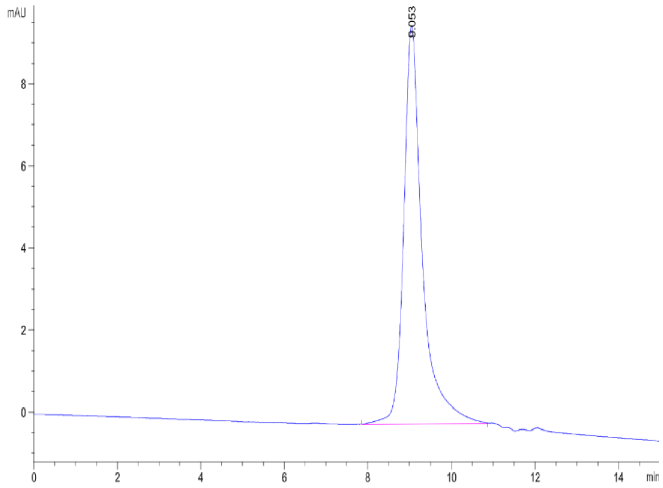
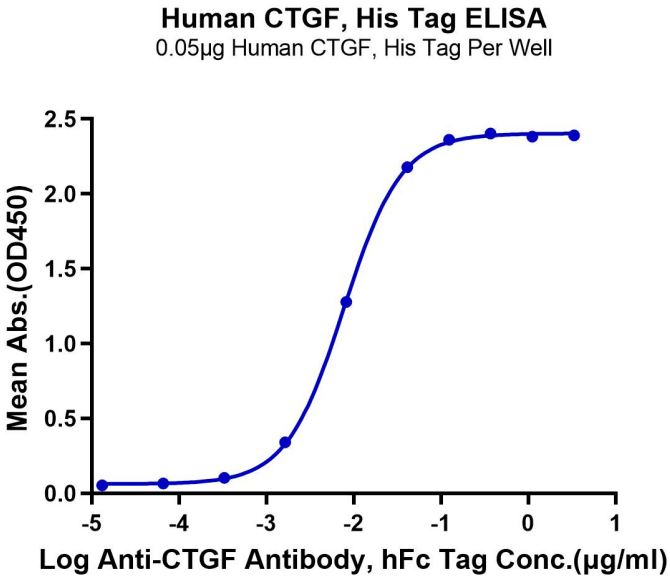
Assay Data



The purity of Human CTGF is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human CTGF, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-CTGF Antibody, hFc Tag with the EC50 of 7.7ng/ml determined by ELISA.