

Datasheet for ABIN7274341
CTGF Protein (AA 27-349) (Fc Tag)

3 Images

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Overview

Quantity:	100 µg
Target:	CTGF
Protein Characteristics:	AA 27-349
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTGF protein is labelled with Fc Tag.

Product Details

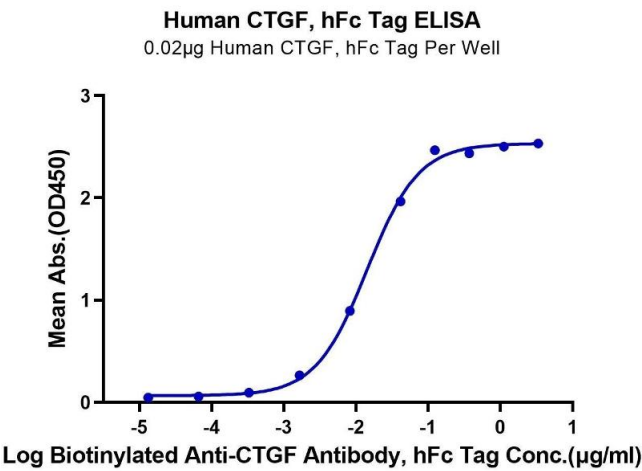
Purpose:	Human CTGF/CCN2 Protein
Sequence:	Gln27-Ala349
Characteristics:	Recombinant Human CTGF/CCN2 Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Gln27-Ala349.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human CTGF, hFc Tag at 0.2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-CTGF Antibody, hFc Tag with the EC50 of 14.2ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	CTGF
Alternative Name:	CTGF (CTGF Products)
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.
Molecular Weight:	61.77 kDa. Due to glycosylation, the protein migrates to 50-55 kDa and 62-72 kDa based on Tris-Bis PAGE result.
UniProt:	Q5M8T4
Pathways:	Regulation of Lipid Metabolism by PPARalpha , Positive Regulation of Endopeptidase Activity , Growth Factor Binding

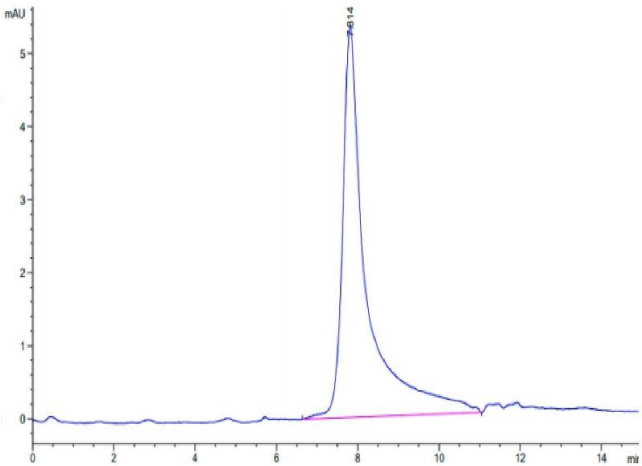
Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months 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.
Expiry Date:	12 months



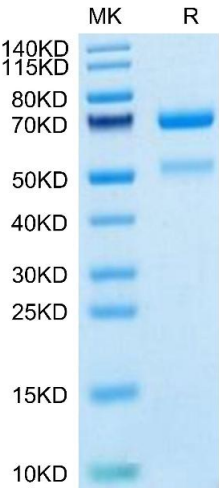
ELISA

Image 1. Immobilized Human CTGF, hFc Tag at 0.2 µg/mL (100 µL/Well) on the plate. Dose response curve for Biotinylated Anti-CTGF Antibody, hFc Tag with the EC50 of 14.2 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human CTGF is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Human CTGF on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .