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Recombinant

Background

Species	Gene ID	Swiss Prot
Human	1490	O5M8T4-1

C-His&Avi

IGFBP8; IBP-8; CCN2; NOV2; HCS24;
CTGF; CTGRP; Fisp12; MGC102839

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.

Basic Information

Biotinylated Recombinant Human CTGF/CCN2 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Gln27-Ala349) of Human CTGF/CCN2 fused with a His and Avi tag at the C-terminal.

Bio-Activity

Source	Purification
HEK293 cells	≥ 95 % as determined by Tris-Bis PAGE.

38.4 kDa 43-53 kDa

< 1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22 μm filtered solution of PBS, 200 mM L-arginine, pH 7.4.

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

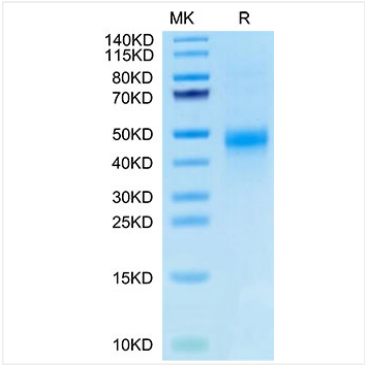
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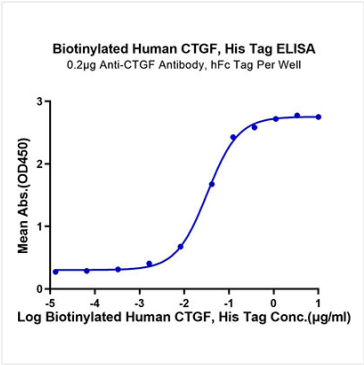
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Validation Data



Biotinylated Recombinant Human CTGF/CCN2 Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized Anti-CTGF Antibody at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human CTGF, His Tag with the EC₅₀ of 32.6ng/ml determined by ELISA.