

Recombinant Rat Ccn2 Protein, Full Length

Cat. No. CTGF-14RFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Ccn2 Protein (Full Length) without tag was expressed in Human embryonic kidney cell.
Species	Rat
Source	HEK293
ProteinLength	Full length
Description	Enables fibronectin binding activity and growth factor activity. Involved in several processes, including positive regulation of G0 to G1 transition; positive regulation of collagen biosynthetic process; and positive regulation of macromolecule metabolic process. Located in several cellular components, including cell cortex; cis-Golgi network; and perinuclear region of cytoplasm. Used to study endomyocardial fibrosis. Biomarker of several diseases, including artery disease (multiple); lung disease (multiple); membranoproliferative glomerulonephritis; primary biliary cholangitis; and restrictive cardiomyopathy (multiple). Orthologous to human CCN2 (cellular communication network factor 2).
Bio-activity	Measured by its ability to mediate Balb/3T3 mouse embryonic fibroblast cell adhesion. The ED50 for this effect is 1-5 µg/mL
Molecular Mass	Predicted Molecular Mass: 35 kDa SDS-PAGE: 35-41 kDa, reducing conditions

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Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	> 85%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
N-terminal Sequence Analysis	No results obtained. Gln25 inferred from enzymatic pyroglutamate treatment revealing Asp26
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS and NaCl.
Shipping	At ambient temperature
Reconstitution	Reconstitute at 500 μg/mL in water.
References	1. Hall-Glenn, F. and K.M. Lyons (2011) Cell. Mol. Life Sci. 68:3209. 2. Xu, J. et al. (2000) J. Cell. Biochem. 77:103. 3. Gao, R. and D.R. Brigstock (2004) J. Biol. Chem. 279:8848.

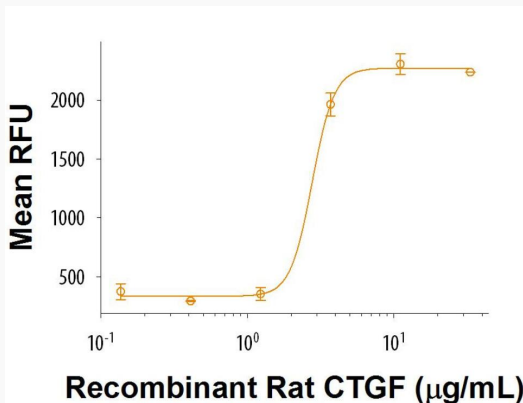
GENE INFORMATION

Gene Name	Ccn2 cellular communication network factor 2 [Rattus norvegicus (Norway rat)]
Official Symbol	Ccn2
Synonyms	Ccn2; cellular communication network factor 2; Ctgf; CTGRP; CCN family member 2; connective tissue growth factor; connective tissue growth-related protein

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Gene ID	64032														
mRNA Refseq	NM_022266														
Protein Refseq	NP_071602														
UniProt ID	Q9R1E9														
Activity	 Mean RFU Recombinant Rat CTGF (µg/mL) <table border="1"> <caption>Approximate data points from the graph</caption> <thead> <tr> <th>Recombinant Rat CTGF (µg/mL)</th> <th>Mean RFU</th> </tr> </thead> <tbody> <tr> <td>0.1</td> <td>~350</td> </tr> <tr> <td>0.3</td> <td>~300</td> </tr> <tr> <td>1.0</td> <td>~350</td> </tr> <tr> <td>3.0</td> <td>~1900</td> </tr> <tr> <td>10.0</td> <td>~2200</td> </tr> <tr> <td>30.0</td> <td>~2200</td> </tr> </tbody> </table>	Recombinant Rat CTGF (µg/mL)	Mean RFU	0.1	~350	0.3	~300	1.0	~350	3.0	~1900	10.0	~2200	30.0	~2200
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