Active Recombinant Rat CTGF protein, His-GST-tagged

Cat. No. Ctgf-544R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat CTGF protein(Q9R1E9)(25~347 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	25-347 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Connective Tissue Growth Factor (CTGF), also known as CCN2 is a matricellular protein of the CCN family of extracellular matrix-associated heparin-binding proteins. CTGF has important roles in many biological processes, including cell adhesion, migration, proliferation, angiogenesis, skeletal development, and tissue wound repair, and is critically involved in fibrotic disease and several forms of cancers. As CTGF has the function of cell adhesion, we measure the activity of recombinant rat CTGF by the ability of the immobilized protein to support the adhesion of Balb/3T3 mouse embryonic fibroblast cell. When 5 x 10^4 cells/well are added to different concentrations of recombinat rat CTGF coated plates, cells will adhere after 2 hour incubation at 37°C. The adhesion of Balb/3T3 after 2 hour incubation at 37°C observed by inverted microscope was shown. Cell adherent was in a dose dependent manner, the result was shown, the EC50 was 1 ug/ml.

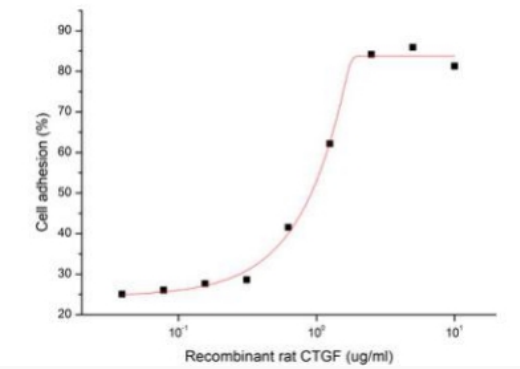
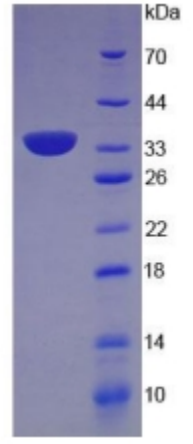
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Molecular Mass	65.4kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Ctgf connective tissue growth factor [Rattus norvegicus]
Official Symbol	CTGF
Synonyms	CTGF; connective tissue growth factor; CCN family member 2; connective tissue growth-related protein; CTGRP;
Gene ID	64032
mRNA Refseq	NM_022266
Protein Refseq	NP_071602

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Activity	
SDS-PAGE	

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