For Research Use Only

Recombinant Rat CTGF protein (rFc Tag)

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Catalog Number: Eg3239

Basic Information

Species:
Rat

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Rat CTGF protein Gln25-Ala347 (Accession# Q9R1E9) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
64032

Accession:
Q9R1E9

Predicted Molecular Mass:
61.4 kDa

SDS-PAGE:
30-36 kDa and 62-68 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CTGF (Connective Tissue Growth Factor), also known as CCN2, is a core member of the CCN family of secreted proteins. It plays a physiological regulatory role in embryonic development and tissue repair by mediating cell adhesion, migration, and proliferation through receptors such as integrins. However, aberrantly high expression of CTGF is a key driver of pathological fibrosis in multiple organs (e.g., pulmonary fibrosis, liver cirrhosis, and glomerulosclerosis), promoting the activation of myofibroblasts and excessive deposition of extracellular matrix, leading to organ scarring. Furthermore, it also plays significant roles in tumor progression, atherosclerosis, and diabetic complications. As a result, CTGF has emerged as a central therapeutic target for anti-fibrotic treatments (such as the monoclonal antibody Pamrevlumab), with related drugs already in advanced clinical trial stages.

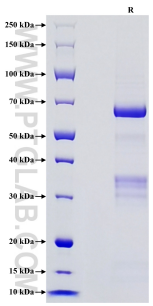
References

1. Ghosh, Priya et al. Cancer metastasis reviews vol. 44,1 (2025): 32. 2. Shen, Yi-Wen et al. Trends in cancer vol. 7,6 (2

Synonyms

CCN family member 2, Ccn2, Cellular communication network factor 2, Connective tissue growth factor, Connective tissue growth-related protein

Selected Validation Data



Purity of Recombinant Rat CTGF was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact
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