CCN2/CTGF Protein, Human (HEK293, His)

Cat. No.:	HY-P700701
Synonyms:	IGFBP8; IBP-8; CCN2; NOV2; HCS24; CTGF; CTGRP; Fisp12; MGC102839
Species:	Human
Source:	HEK293
Accession:	Q5M8T4 (Q27-A349)
Gene ID:	1490
Molecular Weight:	45-60 kDa

PROPERTIES

Biological Activity	1.Immobilized Human CTGF, His Tag at 0.5 μg/mL (100 μl/well) on the plate. Dose response curve for Anti-CTGF Antibody, hFc Tag with the EC_{50} of ≤ 8 ng/mL determined by ELISA.2.Immobilized Human CTGF, His Tag at 1 μg/mL (100 μl/well) on the plate. Dose response curve for Anti-CTGF Antibody, hFc Tag with the EC_{50} of ≤7 ng/mL determined by ELISA.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CCN2/CTGF (Connective Tissue Growth Factor) is a protein primarily produced by vascular endothelial cells. It plays a significant role in various cellular processes. One of its main functions is to attract and stimulate the proliferation and differentiation of chondrocytes, which are cells involved in the formation of cartilage. Additionally, CCN2/CTGF mediates cell adhesion in various cell types, including fibroblasts, myofibroblasts, endothelial cells, and epithelial cells. This adhesion is dependent on the presence of heparin (a polysaccharide) and divalent cations (such as calcium or magnesium). Furthermore, CCN2/CTGF enhances the DNA synthesis induced by fibroblast growth factors, which are proteins involved in cell growth and repair. Overall, CCN2/CTGF is an important protein that regulates cellular processes such as chondrocyte function, cell adhesion, and DNA synthesis, contributing to the development and maintenance of connective tissues.

Caution: Product has not been fully validated for medical applications. For research use only.

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