

CTGFL/WISP-2, Human Recombinant

CATALOG #:	7129-10	10 µg
	7129-50	50 µg
ALTERNATE NAMES:	Connective Tissue Growth Factor-Like protein, CCN5, CT-58	
SOURCE:	E.coli	
PURITY:	≥ 95% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	24.3 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/µg of protein (<1EU/µg).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized with no additives.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not raise to neutral pH. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

DESCRIPTION:

CTGFL/WISP-2 is a 28.6 kDa protein that belongs to the CCN family of cysteine rich regulatory proteins. Members of this family stimulate mitosis, adhesion, apoptosis, extracellular matrix production, growth arrest, and migration of multiple cell types. The protein is expressed in primary osteoblasts, fibroblasts, ovary, testes, and heart. In addition to promoting adhesion of osteoblasts, CTGFL/WISP-2 inhibits osteocalcin

production, as well as binding of fibrinogen to integrin receptors. Recombinant human CTGFL/WISP-2 is a 24.3 kDa protein of 228 amino acid residues.

BIOLOGICAL ACTIVITY:

Determined by its ability to inhibit IGF-II induced proliferation of MCF-7. The expected ED₅₀ is between 10-20 ng/ml in the presence of 15 ng/ml of human IGF-II.

AMINO ACID SEQUENCE:

MQLCPTPCTC PWPPRCPLG VPLVLDGCGC CRVCARRLGE PCDQLHVCDA
SQGLVCQPGA GPGGRGALCL LAEDDSSCEV NGRLYREGET FQPHCSIRCR
CEDGGFTCVPLCSEDVRLPS WDCPHRRVE VLGKCCPEWV CGQGGGLGTQ
PLPAQGPQFS GLVSSLPPGV PCPEWSTAWG PCSTTCGLGM ATRVSNQNR
CRLETQRRLC LSRPCPPSRG RSPQNSAF

RELATED PRODUCTS:

- CTGF, human recombinant (Cat. No. 4702-20, -100, -1000)
- CTGF Antibody (Cat. No. 5553R-100)

FOR RESEARCH USE ONLY! Not to be used in humans.