

CCN1

Recombinant Human Cysteine-rich Angiogenic Inducer 61

Catalog No.	CRC023A CRC023B CRC023C	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	CCN family member 1, IGF-binding protein 10, IGFBP-10, Protein CYR61		
Description:	Cysteine-rich angiogenic inducer 61 (CCN1) encoded by the Cyr61 gene is a dynamically expressed, multifunctional matricellular protein and it is also a secreted, extracellular matrix (ECM)-associated signaling protein of the CCN family. CCN1 plays essential roles in cardiovascular development during embryogenesis and regulates inflammation, wound healing and fibrogenesis in the adult. Aberrant CCN1 expression is associated with myriad pathologies, including various cancers and diseases associated with chronic inflammation. Mature human CCN1 shares 93 % amino acid sequence identity with mouse and rat CCN1 and consists of four domains. There are an IGFBP domain, a VWF type C domain, a TSP type I domain, and a cysteine knot domain.		
UniProt ID:	O00622		
Source:	<i>E. coli</i>		
Molecular Weight:	~39.4 kDa (357 aa) monomer		
Formulation:	Lyophilized from a sterile-filtered citrate buffer containing 300 mM NaCl, pH 3.0.		
Purity:	>95% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	<1 EU/µg as determined by LAL method.		
Biological Activity:	ED ₅₀ < 3.0 µg/ml, determined by a cell proliferation assay using murine Balb/3T3.		
Specific Activity:	>330 IU/mg		
Amino Acid Sequence:	TCPAACHCPL EAPKCAPGVG LVRDGC GCK VCAKQLNEDC SKTQPCDHTK GLECNFGASS TALKGICRAQ SEGRPCEYNS RIYQNGESFQ PNCKHQCTCI DGAVGCIPLC PQELSLPNLG CPNPRLVKVT GQCCEEWVCD EDSIKDPMED QDGLLGKELG FDASEVELTR NNELIAVGKG SSLKRLPVFG MEPRILYNPL QGQKCIQTT SWSQCSKTCG TGISTRVTND NPECRLVKET RICEVRPCGQ PVYSSLKKGK KCSKTKKSPE PVRFTYAGCL SVKKYRPKYC GSCVDGRCCCT PQLTRTVKMR FRCEDGETFS KNVMMIQSCK CNYNCPHANE AAFPYRLFN DIHKFRD		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.		
Storage & Stability:	Store as supplied for up to 1 year at -20°C to -80°C. Reconstituted protein is stable for one month at 2-8°C. For longer storage, prepare working aliquots and store at -20°C to -80°C for up to 3 months. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

