

Recombinant Human CYR61 protein

Cat. No. CYR61-933H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYR61 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	357
Description	Cysteine-rich angiogenic inducer 61 (Cyr61) 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. Cyr61 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 Cyr61 shares 93% amino acid sequence identity with mouse and rat Cyr61. Cyr61 consists of four domains. There are an IGFBP domain, a VWF type C domain, a TSP type I domain, and a cysteine knot domain.
Form	Lyophilized from a 0.2µm filtered concentrated solution in citrate buffer solution, 300 mM NaCl, pH 3.0.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine Balb/3T3 cells is less than 3.0 µg/ml, corresponding to a specific activity of > 330 IU/mg.

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Molecular Mass	Approximately 39.4 kDa, a single non-glycosylated polypeptide chain containing 357 amino acids.
AA Sequence	TCPAACHCPCLEAPKCAPGVGLVRDGCCKVCAKQLNEDCSKTQPCDHTKGLECN FGASSTALKGICRAQSEGRPC EYNSRIYQNGESFQPNCKHQCTCIDGAVGCIPLCP QELSLPNLGCPNPRLVKVTGQCCEEWVCEDESIKDPMEDQDGLLGKELGFDASEV ELTRNNELIAVGKGSSLKRLPVFGMEPRILYNPLQGQKCIVQTTSWSQCSKTCGTGI STRVTNDNPECRLVKETRICEVRPCGQPVYSSLKKGKKCSKTKKSPEPVRFTYAGC LSVKKYRPKYCGSCVDGRCCTPQLTRTVKMRFRCEDGETFSKNVMMIQSCKCNYN CPHANEAAFPFYRLFNDIHKFRD
Endotoxin	Less than 1 EU/g of rHuCYR61 as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	CYR61
Official Symbol	CYR61

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Synonyms	CYR61; cysteine-rich, angiogenic inducer, 61; IGFBP10; protein CYR61; CCN1; GIG1; IBP-10; IGFBP-10; CCN family member 1; IGF-binding protein 10; cysteine-rich, anigogenic inducer, 61; cysteine-rich heparin-binding protein 61; insulin-like growth factor-binding protein 10;
Gene ID	3491
mRNA Refseq	NM_001554
Protein Refseq	NP_001545
MIM	602369
UniProt ID	O00622
SDS-PAGE of CYR61-933H	