

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 | <p>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.</p> |
| 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. |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|-----------------------|--|
| Molecular Mass | Approximately 39.4 kDa, a single non-glycosylated polypeptide chain containing 357 amino acids. |
| AA Sequence | <p>TCPAACHCPLKAPKCAPGVGLVRDGGCGCCKVCAKQLNEDCSKTQPCDHTKGLECN FGASSTALKGICRAQSEGRPCEYNSRIYQNGESFQPNCKHQCTCIDGAVGCIPLCP QELSLPNLGCPNRLVKVTGQCCEEWVWCEDESIKDPMEDQDGLLGKELGFDASEV ELTRNNELIavgkGSSlKRLPVFGMEPRILYNPLQGQKCIVQTTSWSQCSKTCGTGI STRVTNDNPECRlVKETRICEVrPCGQPVYSSlKKGKCSKTKKSPEPVRFTYAGC LSVKKYRPKYCGSCVDGRcCTPQLTRTVKMRFRCEdGETFSKNVMMIQSCKCNYN CPHANEAAFPFYRLFNDIHKFRD</p> |
| 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 |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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](#)

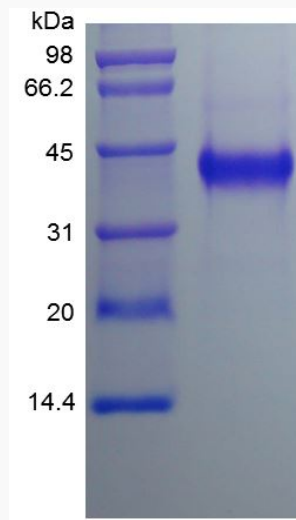
mRNA Refseq [NM_001554](#)

Protein Refseq [NP_001545](#)

MIM [602369](#)

UniProt ID [O00622](#)

**SDS-PAGE of
CYR61-933H**



 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA