

Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

Cysteine-rich angiogenic inducer 61 (Cyr61) is a dynamically expressed, multifunctional matricellular protein of the CCN family encoded by the Cyr61 gene. Cyr61 is critical for cardiovascular development during embryogenesis and regulates inflammation, wound healing and fibrogenesis in the adult. It is involved in cell adhesion, cell migration, cell proliferation, and cell differentiation. Cyr61 consists of four domains: an IGFBP domain, a VWF type C domain, a TSP type I domain, and a cysteine knot domain.

Catalog Number	1150-18
Product Name	CYR61, Human Recombinant Human Cysteine-rich Angiogenic Inducer 61 CCN1 GIG1 IGFBP10
Source	<i>Escherichia coli</i>
MW	~39.4 kDa (357 amino acids)
Sequence	TCPAACHCPL EAPKCAPGVG LVRDGC GCCK VCAKQLNEDC SKTQPCDHTK GLECNFGASS TALKGICRAQ SEGRPCEYNS RIYQNGESFQ PNCKHQCTCI DGAVGCIPLC PQELSLPNLG CPNPRLVKVT GQCCEEWVCD EDSIKDPMED QDGLLGKELG FDASEVELTR NNELIAVGKG SSLKRLPVFG MEPRILYNPL QGQKCIQVTT SWSQCSKTCG TGISTRVTND NPECRLVKET RICEVRPCGQ PVYSSLKKGK KCSKTKKSPE PVRFTYAGCL SVKKYRPKYC GSCVDGRCCT PQLTRTVKMR FRCEDGETFS KNVMMIQSCK CNYNCPHANE AAFPYRLFN DIHKFRD
Accession Number	O00622
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ 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.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.