

CYR61, Human recombinant protein
CCN1, G1G1 protein
Catalog # PBV10766r**Specification****CYR61, Human recombinant protein - Product info**

Primary Accession [O00622](#)
Calculated MW **39.4 kDa**

CYR61, Human recombinant protein - Additional Info

Gene ID	3491
Gene Symbol	CYR61
Other Names	
CCN1, G1G1 protein	
Gene Source	Human
Source	E.coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	HPLC;
Recombinant	Yes
Sequence	MTCPAACHCP LEAPKCAPGV GLVRDGC GCC KVCAKQLNED CSKTQPCDHT KGLECNFGAS STALKGICRA QSEGRPCEYN SRIYQNGESF QPNCKHQCTC IDGAVGCIPL CPQELSLPNL GCPNPRLVKV TGQCCEEWVC DEDSIKDPME DQDGLLGKEL GFDASEVELT RNNELIavgK GSSLKRLPVF GMEPRILYNP LQGQKCIVQT TSWSQCSKTC GTGISTRVTN DNPECRLVKE TRICEVRPCG QPVYSSLKKG KKCSKTKKSP EPVRFTYAGC LSVKKYRPKY CGSCVDGRCC TPQLTRTVKM RFRCEDGETF SKNVMMIQSC KCNYNCPHAN EAAFPFYRLF NDIHKFRD

Target/Specificity
CYR61

Application Notes

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.

Format

Lyophilized powder

Storage

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium Citrate, pH 3.0 and 50 mM NaCl.

CYR61, Human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CYR61, Human recombinant protein - Images

CYR61, Human recombinant protein - Background

CYR61 is a member of the CCN family of secreted cysteine rich regulatory proteins. CYR61 induces angiogenesis by stimulating the proliferation, migration, and adhesion of endothelial cells. Cell migration and adhesion are mediated through binding to specific cell surface integrins and to heparin sulfate proteoglycans. Increased expression of CYR61 is associated with several types of cancer, and correlates with the progression and estrogen independence of human breast cancers. Recombinant human CYR61 is a 39.4 kDa protein containing 357 amino acid residues. It is composed of four distinct structural domains (modules); the IGF binding protein (IGFBP) domain, the von Willebrand Factor C (VWFC) domain, the Thrombospondin type-I (TSP type-1) domain, and a C-terminal cysteine knot-like domain (CTCK).

CYR61, Human recombinant protein - References

Jay P., et al. Oncogene 14:1753-1757(1997).
Martinerie C., et al. Mol. Pathol. 50:310-316(1997).
Albrecht C., et al. J. Biol. Chem. 275:28929-28936(2000).
Kolesnikova T.V., et al. Submitted (JUN-1997) to the EMBL/GenBank/DDBJ databases.
Bi A.B., et al. Submitted (NOV-1997) to the EMBL/GenBank/DDBJ databases.