

CYR61 active protein

Human CYR61

CATALOG # AAA79141	HOST E Coli	REACTIVITY Human
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PRODUCT SYNONYMS

CYR61; Human CYR61; Recombinant Human CYR61; CYR61 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 95% by SDS-PAGE and HPLC analysis
Form/Format	Lyophilized from 10 mM Sodium Citrate, pH 3.0 + 50mM NaCl
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 RFRCEGETF SKNVMMIQSC KCNYNCPHAN EAAFPFYRLF NDIHKFRD
Sequence Length	381
Endotoxin Level	< 0.1 ng per ug of CYR61
Biological Activity	Determined by the dose-dependent stimulation of the proliferation of murine 3T3 cells. The expected ED50 for this effect is 2.0-3.0 ug/ml
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8 degree 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 degree C to -80 degree C.
Preparation and Storage	The lyophilized protein is stable at room temperature for up to 1 month. Working aliquots stored with a carrier protein are stable for at least 5 months at -20 degree C to -80 degree C. Avoid repeated freeze thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for CYR61 active protein	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 39.5 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).
Product Categories/Family for CYR61 active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	31542331
NCBI GeneID	3491
NCBI Accession #	NP_001545.2
NCBI GenBank Nucleotide #	NM_001554.4
UniProt Accession #	O00622; O14934; O43775; Q9BZL7
Molecular Weight	39,5 kDa
NCBI Official Full Name	protein CYR61
NCBI Official Synonym Full Names	cysteine-rich, angiogenic inducer, 61
NCBI Official Symbol	CYR61
NCBI Official Synonym Symbols	CCN1; GIG1; IGFBP10
NCBI Protein Information	protein CYR61; 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
UniProt Protein Name	Protein CYR61
UniProt Gene Name	CYR61
UniProt Synonym Gene Names	CCN1; GIG1; IGFBP10; IBP-10; IGF-binding protein 10; IGFBP-10
UniProt Entry Name	CYR61_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-human-active-protein/cyr61/79141>