



Recombinant Human CYR61

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-149
Size:	20 µg
Lot. No.:	According to product label

Sequence

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MTCFAACHCP LEAPKCAPGV GLVRDGCGCC KVCAKQLNED
CSKTQPCDHT KGLECNFGAS STALKGICRA QSEGRPCEYN
SRIYQNGESF QPNCKHQCTC IDGAVGCIPL CPQELSLPNL
GCPNRLVKV TGQCCEEWVC DEDSIKDPME DQDGLLGKEL
GFDASEVELT RNNELIAGVK GSSLRKLPVF GMEPRILYNP
LQGQKCIIVQT TSWSQCSKTC GTGISTRVTN DNPECLRVKE
TRICEVRPCG QPVYSSLKKG KKCSKTKKSP EPVRFITYAGC
LSVKKYRPKY CGSCVDGRCC TPQLTRTVKM RFRCEDGETF
SKNVMMIQSC KCNYNCPHAN EAAFFPYRLF NDIHKFRD

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Scientific Background

Gene-ID (NCBI):	3491
Synonyms:	CYR61; CCN1; GIG1; IGFBP10

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).

Database References

Protein RefSeq:	NP_001545.2
Uniprot ID:	O00622
mRNA RefSeq:	NM_001554

Product Specifications

Expressed in	E. coli
Purity	> 95% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	357
MW:	39.5 kDa

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 µg/ml



AVOID REPEATED FREEZE AND THAW CYCLES!