

CYR61/CCN1 Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	CCN family member 1;Insulin-like growth factor-binding protein 10 (IBP-10;IGF-binding protein 10;IGFBP-10);CYR61;GIG1;CCN1;IGFBP10;Protein GIG1;Cellular communication network factor 1;Cysteine-rich angiogenic inducer 61;Protein CYR61
Protein Construction:	25-381 aa
Species:	Human
Expression Host:	E. coli
Accession:	O00622
Molecular Weight:	55.4 kDa (predicted)
AA Sequence:	TCPAACHCPLKAPKCAPGVGLVRDGC GCKVCAKQLNEDCSKTQPCDHTKGLECNFGASSTALKGICRAQSE GRPCEYNSRIYQNGESFQPNCKHQCTCIDGAVGCIPLCPQELSLPNLGCPNRLVKVTGQCCEEWVCEDESIK DPMEDQDGLLGKELGFDASEVELTRNNELIAVGGKSSLRPLVFGMEPRILYNPLQGQKIVQTTSSWSQCSKT CGTGISTRVTNDNPECLRVKETRICEVRPCGQPVYSSLLKGGKCSKTKKSPPEVRFYAGCLSVKRYRPKYCGS CVDGRCCTPQLTRTVKMRFRCEDEGETFSKNVMMIQSCKCNYNCPHANEAAFPFYRLFNDIHKFRD

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Promotes cell proliferation, chemotaxis, angiogenesis and cell adhesion. Appears to play a role in wound healing

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by up-regulating, in skin fibroblasts, the expression of a number of genes involved in angiogenesis, inflammation and matrix remodeling including VEGF-A, VEGF-C, MMP1, MMP3, TIMP1, uPA, PAI-1 and integrins alpha-3 and alpha-5. CCN1-mediated gene regulation is dependent on heparin-binding. Down-regulates the expression of alpha-1 and alpha-2 subunits of collagen type-1. Promotes cell adhesion and adhesive signaling through integrin alpha-6/beta-1, cell migration through integrin alpha-v/beta-5 and cell proliferation through integrin alpha-v/beta-3.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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