

CYR61 Human

Description: CYR61 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 357 amino acids and having a molecular mass of 39.5kDa. The CYR61 is purified by proprietary chromatographic techniques.

Catalog #: CYP5-171

For research use only.

Synonyms: CYR61, Protein CYR61, Cysteine-rich angiogenic inducer 61, Insulin-like growth factor-binding protein 10, IGF-binding protein 10, IGFBP-10, IBP-10, Protein GIG1, CCN family member 1, CCN1, GIG1, IGFBP10.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: TCPAACHCPL EAPKCAPGVG LVRDGCCK VCAKQLNEDC
SKTQPCDHTK GLECNFGASS TALKGICRAQ SEGRPCEYNS RIYQNGESFQ PNCKHQCTCI
DGAVGCIPLC PQELSLPNLG CPNRLVKVT GQCCEEWVCD EDSIKDPMED QDGLLGKELG
FDASEVELTR NNELIAVGKG SSLKRLPVFG MEPRILYNPL QGQKCIVQTT SWSQCSKTCG
TGISTRVTND NP

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

Lyophilized from a 0.2m filtered concentrated solution in PBS, pH 7.4.

Stability:

Lyophilized CYR61 Human although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CYR61 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized CYR61 in sterile 18M-cm H₂O not less than 100

Introduction:

CYR61 is a growth factor-inducible, immediate-early gene that has multifaceted activities in various cancers. CYR61 is a secreted, cysteine-rich, heparin-binding protein which is encoded by a growth factor-inducible immediate-early gene. Acting as an extracellular, matrix-associated signaling molecule, CYR61 promotes the adhesion of endothelial cells through interaction with integrin and enhances growth factor-induced DNA synthesis in the same cell type.

Biological Activity:

Fully biologically active when compared to standard. The ED₅₀ was determined by the proliferation of mouse 3T3 cells is $2.0\text{ }\mu\text{g/ml}$, corresponding to a specific activity of 500 units/mg.

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