



Cysteine-Rich Angiogenic Inducer 61, human recombinant (rHuCYR61)

Catalog No: 97430
Lot No: XXXXX
Source: *E. coli*
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

Background

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.

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 39.5 kDa. CYR61 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

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

Solubility

It is recommended to reconstitute the lyophilized CYR61 in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized CYR61, 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.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

TCPAACHCPL EAPKCAPGVG LVRDGC GCK VCAKQLNEDC SKTQPCDHTK GLECNFGASS TALKGICRAQ SEGRPCEYNS
RIYQNGESFQ PNCKHQCTCI DGAVGCIPLC PQELSLPNLG CPNRLVKVT GQCCEEWVCD EDSIKDPMED QDGLLGKELG
FDASEVELTR NNELIAVGKG SSLKRLPVFG MEPRILYNPL QGQKCIVQTT SWSQCSKTCG TGISTRVTND NPECRLVKET
RICEVRPCGQ PVYSSLKKGK KCSKTKKSPE PVRFTYAGCL SVKKYRPKYC GSCVDGRCC T PQLTRTVKMR FRCEDGETFS
KNVMMIQSCK CNYNCPHANE AAFPFFYRLFN DIHKFRD

Activity

Fully biologically active when compared to standard. The ED₅₀ was determined by the proliferation of mouse 3T3 cells is <2.0 µg/ml, corresponding to a specific activity of >500 units/mg.

CONTACT US TODAY

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51



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