

Recombinant Human Cysteine-rich Angiogenic Inducer 61

(Human CYR61)

Product Information

Product Name	Cat#	Size
	92518ES08	5µg
Recombinant Human Cysteine-rich Angiogenic Inducer 61 (Human CYR61)	92518ES60	100µg
	92518ES76	500µg

Product Description

Cyr61, also known as CCN1, is a 40-45 kDa matricellular glycoprotein that plays an important role in cellular adhesion and migration. Cyr61 consists of an IGFBP domain, a VWF type C domain, a TSP type I domain, and a cysteine knot domain. Mature human Cyr61 shares 93% amino acid sequence identity with mouse and rat Cyr61. It is widely expressed during development and in adult tissues (2, 3). Cyr61 associates with the extracellular matrix (ECM) and with many cell surface molecules including Integrins alpha V beta 3, alpha V beta 5, alpha M beta 2, and alpha 6 beta 1, Syndecan-4, and heparan sulfate proteoglycans. Cyr61 mediates the adhesion and migration of multiple cell types and also promotes vascular endothelial cell tubule formation. Plasmin cleavage of ECM-bound Cyr61 releases a 28 kDa N-terminal fragment which retains the ability to promote endothelial cell migration. Cyr61 exhibits both tumorigenic and tumor suppressor properties.

Product Properties

Synonyms	CCN1, Cysteine-rich Angiogenic Inducer 61, GIG1, IGFBP-10
Accession	O00622
GeneID	3491
Source	E.coli-derived Human CYR61 protein, Thr25-Asp381.
Molecular Weight	Approximately 39.4 kDa
AA Sequence	TCPAACHCPL EAPKCAPGVG LVRDGC GCK VCAKQLNEDC SKTQPCDHTK GLECNFGASS TALKGICRAQ SEGRPCEYNS RIYQNGESFQ PNCKHQCTCI DGAVGCIPLC PQELSLPNLG CPNPRLVKVT GQCCEEWVCD EDSIKDPMED QDGLLGKELG FDASEVELTR NNELIAVGKG SSLKRLPVFG MEPRILYNPL QGQKCIVQTT SWSQCSKTCG TGISTRVTND NPECRLVKET RICEVRPCGQ PVYSSLKKGK KCSKTKKSPE PVRFTYAGCL SVKKYRPKYC GSCVDGRCCT PQLTRTVKMR FRCEDGETFS KNVMMIQSCK CNYNCPHANE AAFPYRLFN DIHKFRD
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine Balb/3T3 cells is less than 3.0 µg/mL, corresponding to a specific activity of > 330 IU/mg.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.