

## Recombinant Human Cysteine-rich Angiogenic Inducer 61

### Information

<b>Gene ID</b>	3491
<b>Accession #</b>	O00622
<b>Alternate Names</b>	CCN1, Cysteine-rich Angiogenic Inducer 61, GIG1, IGFBP-10
<b>Source</b>	Escherichia coli.
<b>M.Wt</b>	Approximately 39.4 kDa, a single non-glycosylated polypeptide chain containing 357 amino acids.
<b>AA Sequence</b>	<p>           TCPAACHCPL EAPKCAPGVG LVRDGC GCCK VCAKQLNEDC            SKTQPCDHTK GLECNFGASS TALKGICRAQ SEGRPCEYNS RIYQNGESFQ            PNCKHQCTCI DGAVGCIPLC PQELSLPNLG CPNPRLVKVT GQCCEEWVCD            EDSIKDPMED QDGLLGKELG FDASEVELTR NNELIAVGKG SSLKRLPVFG            MEPRILYNPL QGQKCVQTT SWSQCSKTCG TGISTRVTND NPECRLVKET            RICEVRPCGQ PVYSSLKKGK KCSKTKKSPE PVRFTYAGCL SVKKYRPKYC            GSCVDGRCT PQLTRTVKMR FRCEDGETFS KNVMMIQSCK            CNYNCPHANE AAFPYRLFN DIHKFRD         </p>
<b>Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in citrate buffer solution, 300 mM NaCl, pH 3.0.
<b>Reconstitution</b>	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.
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> 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.
<b>Shipping Condition</b>	Gel pack.
<b>Handling</b>	Centrifuge the vial prior to opening.
<b>Usage</b>	For Research Use Only! Not to be used in humans.

### Components and Storage

<b>Components</b>	<b>5µg</b>	<b>100µg</b>	<b>500µg</b>
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## Quality Control

<b>Purity</b>	> 95 % by SDS-PAGE and HPLC analyses.
<b>Endotoxin</b>	Less than 1 EU/µg of rHuCYR61 as determined by LAL method.

## Description

由 Cyr61 基因编码的富含半胱氨酸的血管生成诱导剂 61 (Cyr61) 是一种动态表达的多功能基质细胞蛋白, 也是 CCN 家族的分泌型细胞外基质 (ECM) 相关信号蛋白。Cyr61 在胚胎发生过程中的心血管发育中起着至关重要的作用, 并调节成人的炎症、伤口愈合和纤维化。异常的 CCN1 表达与多种病理有关, 包括与慢性炎症相关的各种癌症和疾病。成熟的人 Cyr61 与小鼠和大鼠 Cyr61 具有 93% 的氨基酸序列同一性。Cyr61 由四个域组成。有一个 IGFBP 结构域、一个 VWF C 型结构域、一个 TSP I 型结构域和一个半胱氨酸结结构域。

## Reference

1. Jay P, Berge-Lefranc JL, Marsollier C, et al. 1997. Oncogene. 14:1753-7
2. Lau LF. 2011. Cell Mol Life Sci. 68:3149-63
3. Jun JI, Lau LF. 2011. Nat Rev Drug Discov. 10:945-63
4. Holbourn KP, Acharya KR, Perbal B. 2008. Trends Biochem Sci. 33:461-73.

**APExBIO Technology**

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