Product name: Recombinant human CYR61/CCN1 protein (Active)

Biological activity: Determined by the dose-dependent stimulation of the proliferation of murine 3T3 cells. The expected $ED_{50}$ for this effect is 2.0-3.0 μg/ml.

Purity: > 95 % SDS-PAGE.

Endotoxin level: < 1.000 Eu/µg

Expression system: Escherichia coli

Accession: O00622

Protein length: Protein fragment

Animal free: No

Nature: Recombinant

Species: Human

Sequence:
TCPAACHCP LEAPKCAGPV GLVRDGCAGCC
KVCAKQLNED CSKUQCDHT KGLECNFGAS
STALKGICRA QSEGPRCEYN SRYQNGESF
QPNCBHQCCTC IDGAVGCIPL CPQELSLPNL
GCPNPRPVKV TGQCCEEWVC DEDSKDPME
DQDGLLGKEL GFDAEVELRT RNNELAV/GK
GSSLKRLPVF GMEPRILYNP LQGKCIVQT
TSWSQGSKTC GTGISTRVTN DNPECRVLKE
TRICEVRPCG QPYSSLKKG KKCSTKKSP
EPVRFTYAGC LSVKKYRPKY CGSCVGRCC
TPQLTRTVKM RFRCEGETF SKNVMMIQSC
KCNVNCPHAN EAAFPFYRLF NDHFKRD

Predicted molecular weight: 40 kDa

Amino acids: 25 to 381

Specifications

Our Abpromise guarantee covers the use of ab50074 in the following tested applications.
### Applications
- SDS-PAGE
- Functional Studies

### Form
- Lyophilized

### Preparation and Storage

<table>
<thead>
<tr>
<th>Stability and Storage</th>
<th>Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. This product is an active protein and may elicit a biological response in vivo, handle with caution.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reconstitution</td>
<td>Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA).</td>
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### General Info

| Function | Promotes cell proliferation, chemotaxis, angiogenesis and cell adhesion. Appears to play a role in wound healing by up-regulating, in skin fibroblasts, the expression of a number of genes involved in angiogenesis, inflammation and matrix remodeling including VEGA-A, VEGA-C, MMP1, MMP3, TIMP1, uPA, PAI-1 and integrins alpha-3 and alpha-5. CYR61-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. |
| Sequence similarities | Belongs to the CCN family. Contains 1 CTCK (C-terminal cystine knot-like) domain. Contains 1 IGFBP N-terminal domain. Contains 1 TSP type-1 domain. Contains 1 VWFC domain. |
| Cellular localization | Secreted. |

**Please note:** All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES”

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
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If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit [https://www.abcam.com/abpromise](https://www.abcam.com/abpromise) or contact our technical team.
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