# Recombinant Human CYR61/CCN1 protein ab50074

## Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Recombinant Human CYR61/CCN1 protein</th>
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</thead>
<tbody>
<tr>
<td>Protein length</td>
<td>Protein fragment</td>
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</table>

## Description

<table>
<thead>
<tr>
<th>Nature</th>
<th>Recombinant</th>
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<tbody>
<tr>
<td>Source</td>
<td>Escherichia coli</td>
</tr>
<tr>
<td>Species</td>
<td>Human</td>
</tr>
<tr>
<td>Sequence</td>
<td>TCPAACHCP LEAPKCAPGV GLVRDGCGCC KVKCAKQLNED CSKTQPCDHT KGLEGCLFGAS STALKGCRA OSEQRPCEYN SRIYONGESF QPNCKHQCCTC IDGAVGCIPL CPQELSPLNL GCPNPRLVKV TGGCCEEWWVC DEYDIDHME DQDGLGKEL GFDASEVELT RNNELAVDGK GSSLKRLPVF GMHMRPLYNP LQGQKCVQT TSWGQCSKTC GTGISTRVTVN DNPECRLKVE TRICEVRPCG QPQVYSLKKG KKCSTKKSPP EPVRFTYAGC LSKYKRVPKY CGSCVDGRCC TPQLTTRTVKM RFRCEDGETF SKNVMMIQSC KCNYPCHAN EAAFPFYRLF NDHNFRED</td>
</tr>
<tr>
<td>Amino acids</td>
<td>25 to 381</td>
</tr>
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## Specifications

Our Abpromise guarantee covers the use of ab50074 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Applications</th>
<th>SDS-PAGE</th>
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<tbody>
<tr>
<td></td>
<td>Functional Studies</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Endotoxin level</th>
<th>&lt; 0.100 Eu/µg</th>
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<tbody>
<tr>
<td>Purity</td>
<td>&gt; 95 % SDS-PAGE.</td>
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</table>

ab50074 purity was estimated also by HPLC. Endotoxin level is less than 0.1 ng per µg (1EU/µg).
**Form**
Lyophilised

**Preparation and Storage**

**Stability and Storage**
Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

**Reconstitution**
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).

**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.

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*Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"*

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- Extensive multi-media technical resources to help you
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