

## Product datasheet

# Recombinant human CYR61/CCN1 protein (Active) ab50074

### 1 References

#### Description

---

<b>Product name</b>	Recombinant human CYR61/CCN1 protein (Active)
<b>Biological activity</b>	Determined by the dose-dependent stimulation of the proliferation of murine 3T3 cells. The expected <b>ED</b> <sub>50</sub> for this effect is 2.0-3.0 µg/ml.
<b>Purity</b>	> 95 % SDS-PAGE. ab50074 purity was estimated also by HPLC. Endotoxin Level: < 0.1 ng/µg of protein (< 1 EU/µg).
<b>Endotoxin level</b>	< 1.000 Eu/µg
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>O00622</u></b>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	TCPAACHCP LEAPKCAPGV GLVRDGCGCC KVCAKQLNED CSKTQPCDHT KGLECNFGAS STALKGICRA QSEGRPCEYN SRIYQNGESF QPNCKHQCTC IDGAVGCIPL CPQELSLPNL GCPNPRLVKV TGQCCEEWVC DEDSIKDPME DQDGLLGKEL GFDASEVELT RNNELIavgk GSSLKRLPVF GMEPRILYNP LQGQKCIVQT TSWSQCSKTC GTGISTRVTN DNPECRLVKE TRICEVRPCG QPVYSSLKKG KKCSKTKKSP EPVRFTYAGC LSVKKYRPKY CGSCVDGRCC TPQLTRTVKM RFRCEGETF SKNVMMIQSC KCNYNCPHAN EAAFPFYRLF NDIHKFRD
<b>Predicted molecular weight</b>	40 kDa
<b>Amino acids</b>	25 to 381

#### 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.

<b>Applications</b>	SDS-PAGE Functional Studies
<b>Form</b>	Lyophilized

## Preparation and Storage

---

<b>Stability and Storage</b>	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.
<b>Reconstitution</b>	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

---

<b>Function</b>	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 VEGF-A, VEGF-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.
<b>Sequence similarities</b>	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.
<b>Cellular localization</b>	Secreted.

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

## Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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> or contact our technical team.

## Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors