

## Datasheet: PHP174

<b>Description:</b>	RECOMBINANT HUMAN CTGF
<b>Name:</b>	CTGF
<b>Other names:</b>	CONNECTIVE TISSUE GROWTH FACTOR
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	20 µg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			0.2 - 0.4ng/well
Western Blotting	▪			1.5 - 3.0ng/lane
Functional Assays	▪			1.0 - 2.0ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified recombinant protein - lyophilized
<b>Reconstitution</b>	Reconstitute with 0.2 ml distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
<b>Preparation</b>	Purified recombinant CTGF expressed in <i>E.coli</i>
<b>Source</b>	E.coli
<b>Buffer Solution</b>	10mM Sodium Acetate
<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes

<b>Endotoxin Level</b>	< 1.0 EU/ug
<b>Approx. Protein Concentrations</b>	Total protein concentration 0.1 mg/ml after reconstitution
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P29279</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1490</a>    CTGF    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CCN2, HCS24, IGFBP8
<b>Product Information</b>	<p>CTGF (connective tissue growth factor) is a heparin-binding pleiotropic growth factor and member of the CCN family of secreted cysteine rich regulatory proteins, which interacts with other growth factors including transforming growth factor beta (TGF-beta), vascular endothelial growth factor (VEGF) and bone morphogenetic proteins (BMPs).</p> <p>CTGF promotes the adhesion of epithelial cells and fibroblasts, stimulates integrin expression, and promotes endothelial cell survival, migration and adhesion, implicating CTGF in angiogenesis. CTGF is involved in chondrogenesis and potentially skeletogenesis, induces extracellular matrix formation and has also been implicated in wound healing.</p>
<b>Protein Molecular Weight</b>	11.2 kDa (98 amino acid residues)
<b>Activity</b>	Determined by the dose-dependent stimulation of the proliferation of HUVEC cells. The expected ED <sub>50</sub> for this effect is 1.0-2.0 µg/ml.
<b>Purity</b>	>95% by SDS PAGE/HPLC analysis
<b>ELISA</b>	PHP174 may be used as a standard in a sandwich ELISA with <a href="#">AHP1278</a> as a capture reagent and <a href="#">AHP1278B</a> as the detection reagent.
<b>Western Blotting</b>	PHP174 may be used as a positive control for western blotting for either <a href="#">AHP1278</a> or <a href="#">AHP1278B</a> .
<b>References</b>	1. Waddell, J.M. <i>et al.</i> (2011) CTGF expression is up-regulated by PROK1 in early pregnancy and influences HTR-8/Svneo cell adhesion and network formation. <a href="#">Hum Reprod. 26 (1): 67-75.</a>
<b>Storage</b>	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at -20°C.</p> <p>Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>

<b>Guarantee</b>	3 months from date of reconstitution
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10527 available at: <a href="https://www.bio-rad-antibodies.com/SDS/PHP17410527">https://www.bio-rad-antibodies.com/SDS/PHP17410527</a>
<b>Regulatory</b>	For research purposes only

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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