

Datasheet: 2150-1425

**BATCH NUMBER 166533**

<b>Description:</b>	NATIVE COLLAGEN I (TAIL TENDON)
<b>Name:</b>	COLLAGEN I (TAIL TENDON)
<b>Format:</b>	Purified
<b>Product Type:</b>	Purified Protein
<b>Quantity:</b>	0.5 mg

## 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	■			
Western Blotting			■	

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>	Mouse
<b>Product Form</b>	Purified Protein - liquid
<b>Preparation</b>	Collagens were extracted from washed dissected tissue into dilute acetic acid after mild pepsin treatment. Collagen type I was purified by using differential salt precipitation.
<b>Buffer Solution</b>	0.5M acetic acid
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	1.0 mg/ml
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P11087</a> <a href="#">Related reagents</a> <a href="#">Q01149</a> <a href="#">Related reagents</a>

**Entrez Gene:**[12842](#) Col1a1 [Related reagents](#)[12843](#) Col1a2 [Related reagents](#)

<b>Synonyms</b>	Cola1, Cola2
<b>Product Information</b>	<p><b>Native Murine collagen I</b> is purified Mouse collagen I from tail tendon. Thermal denaturation converts the collagen to gelatin.</p> <p>Impurities: Mouse collagen type III 10% Mouse collagen (other types) &lt;1% Non-collagenous proteins &lt;0.5%</p>
<b>Protein Molecular Weight</b>	~300 kDa
<b>Purity</b>	90%< by SDS PAGE (cross linked collagen type I dimers and trimers represent ~10%)
<b>References</b>	<ol style="list-style-type: none"><li>1. Sebinger, D.D. <i>et al.</i> (2013) ECM modulated early kidney development in embryonic organ culture. <a href="#">Biomaterials. 34 (28): 6670-82.</a></li><li>2. Takahashi, S. <i>et al.</i> (2015) C-type lectin-like domain and fibronectin-like type II domain of phospholipase A2 receptor 1 modulate binding and migratory responses to collagen. <a href="#">FEBS Lett. 589 (7): 829-35.</a></li><li>3. Hara, M. <i>et al.</i> (2017) Interaction of reactive astrocytes with type I collagen induces astrocytic scar formation through the integrin-N-cadherin pathway after spinal cord injury. <a href="#">Nat Med. 23 (7): 818-28.</a></li><li>4. Tamaru, T. <i>et al.</i> (2023) Glial scar survives until the chronic phase by recruiting scar-forming astrocytes after spinal cord injury. <a href="#">Exp Neurol. 359: 114264.</a></li></ol>
<b>Further Reading</b>	<ol style="list-style-type: none"><li>1. Rhodes, R.K. &amp; Miller, E.J. (1978) Physicochemical characterization and molecular organization of the collagen A and B chains. <a href="#">Biochemistry. 17 (17): 3442-8.</a></li></ol>
<b>Storage</b>	<p>Store at -20°C only.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10184 available at: <a href="https://www.bio-rad-antibodies.com/SDS/2150-1425">https://www.bio-rad-antibodies.com/SDS/2150-1425</a> 10184</p>
<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>
----------------------------------	---	------------------	---	---------------	---

batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

'M362999:200528'

Printed on 20 Mar 2024

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)