

Datasheet: 2150-1425

BATCH NUMBER 148861

Description:	NATIVE COLLAGEN I (TAIL TENDON)
Name:	COLLAGEN I (TAIL TENDON)
Format:	Purified
Product Type:	Purified Protein
Quantity:	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.

	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.

Target Species	Mouse
Product Form	Purified Protein - liquid
Preparation	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.
Buffer Solution	0.5M acetic acid
Preservative Stabilisers	None present
Approx. Protein Concentrations	1.0 mg/ml
External Database Links	UniProt: P11087 Related reagents Q01149 Related reagents

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

Synonyms	Cola1, Cola2
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Product Information	Native Murine collagen I is purified Mouse collagen I from tail tendon. Thermal denaturation converts the collagen to gelatin. Impurities: Mouse collagen type III 10% Mouse collagen (other types) <1% Non-collagenous proteins <0.5%
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Protein Molecular Weight	~300 kDa
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Purity	90%< by SDS PAGE (cross linked collagen type I dimers and trimers represent ~10%)
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References	<ol style="list-style-type: none">1. Sebinger, D.D. <i>et al.</i> (2013) ECM modulated early kidney development in embryonic organ culture. Biomaterials. 34 (28): 6670-82.2. 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. FEBS Lett. 589 (7): 829-35.3. 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. Nat Med. 23 (7): 818-28.4. Tamaru, T. <i>et al.</i> (2023) Glial scar survives until the chronic phase by recruiting scar-forming astrocytes after spinal cord injury. Exp Neurol. 359: 114264.
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Further Reading	<ol style="list-style-type: none">1. Rhodes, R.K. & Miller, E.J. (1978) Physicochemical characterization and molecular organization of the collagen A and B chains. Biochemistry. 17 (17): 3442-8.
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Storage	Store at -20°C only. Storage in frost-free freezers is not recommended. 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.
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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10184 available at: https://www.bio-rad-antibodies.com/SDS/2150-1425 10184
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Regulatory	For research purposes only
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North & South Tel: +1 800 265 7376

Worldwide Tel: +44 (0)1865 852 700

Europe Tel: +49 (0) 89 8090 95 21

America Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

To
find a

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

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