

Datasheet: 2150-1425

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 the 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	<p>UniProt:</p> <p>P11087 Related reagents</p> <p>Q01149 Related reagents</p> <p>Entrez Gene:</p> <p>12842 Col1a1 Related reagents</p> <p>12843 Col1a2 Related reagents</p>
Synonyms	Cola1, Cola2

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%

Molecular Weight MW: ~300 kDa

Purity SDS PAGE: 90%
Cross linked collagen type I dimers and trimers represent approximately 10%.

References

1. Rhodes, R. K. & Miller, E. J. (1978) Physicochemical characterization and molecular organization of the collagen A and B chains [Biochemistry 17: 3442 - 3448](#)
2. Sebinger, D.D. *et al.* (2013) ECM modulated early kidney development in embryonic organ culture. [Biomaterials. 34 \(28\): 6670-82.](#)
3. Takahashi, S. *et al.* (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.](#)

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.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10184 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10184.pdf>

Regulatory For research purposes only

North & South America Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

'M314050:180412'

Printed on 13 Apr 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)