

## Datasheet: 2150-1425

<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

### External Database Links

#### UniProt:

[P11087](#)

[Related reagents](#)

[Q01149](#)

[Related reagents](#)

#### Entrez Gene:

[12842](#) Col1a1 [Related reagents](#)

[12843](#) Col1a2 [Related reagents](#)

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**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**

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.](#)
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.](#)

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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: 10184: <https://www.bio-rad-antibodies.com/uploads/MSDS/10184.pdf>

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**Regulatory** For research purposes only

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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)  
'M362999:200528'

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