

Datasheet: 2150-2506

**BATCH NUMBER 171801**

<b>Description:</b>	NATIVE MOUSE COLLAGEN I/III
<b>Name:</b>	COLLAGEN I/III
<b>Format:</b>	Purified
<b>Product Type:</b>	Purified Protein
<b>Quantity:</b>	10 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	▪			

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 from murine tail tendons - lyophilized
<b>Reconstitution</b>	Use 0.05-0.5 M acetic acid, pH 2.5 at 4°C. Dissolved collagen retains immunologic properties of native collagen types I+III. Thermal denaturation converts dissolved collagen to gelatin.
<b>Preparation</b>	Pepsin treatment, acetic acid extraction, serial salt precipitations
<b>Buffer Solution</b>	Essentially salt free
<b>Preservative Stabilisers</b>	None present

### External Database Links

#### UniProt:

<a href="#">P11087</a>	<a href="#">Related reagents</a>
<a href="#">Q01149</a>	<a href="#">Related reagents</a>
<a href="#">P08121</a>	<a href="#">Related reagents</a>

**Entrez Gene:**[12842](#) Col1a1 [Related reagents](#)[12843](#) Col1a2 [Related reagents](#)[12825](#) Col3a1 [Related reagents](#)

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**Synonyms**Cola1, Cola2

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**Product Information**

Murine collagen type I 45%  
Murine collagen type III 45%  
Murine collagen type IV 10%  
Murine collagen type V <1%  
Non-collagenous proteins <0.5%  
M[a1(I)1a2(I)2]. Native triple helix.

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**Protein Molecular Weight**300 kDa

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**Purity**

Purity and retention of native helical structure was controlled by SDS-PAGE, ORD measurement and ability to form microfibrils.

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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.](#)

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**Storage**

This product is shipped at ambient temperature.  
Prior to reconstitution store at +4°C.  
After reconstitution store at -20°C.  
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.

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**Guarantee**

Guaranteed until date of expiry. Please see product label.

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**Health And Safety Information**

Material Safety Datasheet documentation #10268 available at: <https://www.bio-rad-antibodies.com/SDS/2150-2506>

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**Regulatory**

For research purposes only

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**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

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

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