

Datasheet: 2150-0515

**BATCH NUMBER 165247**

<b>Description:</b>	NATIVE BOVINE COLLAGEN I
<b>Name:</b>	COLLAGEN I
<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>	Bovine
<b>Product Form</b>	Purified protein from calf tendon - lyophilized
<b>Reconstitution</b>	Use 0.5M acetic acid, pH 3.0. Dissolved collagen have to be thoroughly homogenized in a Potter after addition of the solute and left overnight in the coldroom to dissolve. Dissolved collagen retains immunologic properties of native collagen type I. Thermal denaturation (5 minutes at 100°C) converts dissolved collagen to gelatin.
<b>Preparation</b>	Bovine collagen type I was isolated from calf tendons. Isolation steps included extraction into dilute acetic acid after pepsin treatment, followed by multiple steps of differential salt precipitation and ion-exchange chromatography.
<b>Buffer Solution</b>	Essentially salt free
<b>Preservative Stabilisers</b>	None present
<b>External Database Links</b>	<b>UniProt:</b>

[P02465](#)    [Related reagents](#)

[P02453](#)    [Related reagents](#)

**Entrez Gene:**

[282188](#) COL1A2 [Related reagents](#)

[282187](#) COL1A1 [Related reagents](#)

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**Product Information**    Collagen type I 90%  
Collagen type III 10%  
Non-collagenous proteins <0.5%

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**Protein Molecular Weight**    ~300 kDa

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**Storage**    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/2150-0515>  
10268

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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)

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