

Datasheet: 2150-0555

**BATCH NUMBER 160325**

<b>Description:</b>	NATIVE BOVINE COLLAGEN III
<b>Name:</b>	COLLAGEN 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>	Bovine
<b>Product Form</b>	Purified Protein - lyophilized
<b>Reconstitution</b>	Reconstitute with 2.0 ml of 0.1M acetic acid, pH 3.0. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
<b>Preparation</b>	Isolation steps included extraction into dilute acetic acid after pepsin treatment, followed by differential salt precipitation and purification by ion-exchange chromatography.
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	Total protein concentration 5.0 mg/ml after reconstitution

### External Database Links

**UniProt:**

[P04258](https://www.uniprot.org/uniprot/P04258)

[Related reagents](#)

**Entrez Gene:**[510833](#) COL3A1 [Related reagents](#)

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<b>Product Information</b>	Purified collagen type III from bovine skin. Collagen type III occurs in most soft connective tissues. It is composed of trimers of identical alpha 1(III) chains. The chains are linked to each other by interchain disulfide bonds. Trimers are also cross-linked via hydroxylysines.
<b>Protein Molecular Weight</b>	300 kDa
<b>Purity</b>	Non-collagenous proteins are less than 0.5%. Typical contaminants are cross-linked collagen type II dimers and trimers (approximately 10%). Other collagen types constitute less than 5% by immunoassay and analytical chromatography.
<b>References</b>	1. Hitsumoto, Y. <i>et al.</i> (2013) Adhesive properties of <i>Clostridium perfringens</i> to extracellular matrix proteins collagens and fibronectin. <a href="#">Anaerobe. pii: S1075-9964(13)00187-X.</a>
<b>Storage</b>	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.
<b>Guarantee</b>	Guaranteed until date of expiry. Please see product label.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10268 available at: <a href="https://www.bio-rad-antibodies.com/SDS/2150-0555">https://www.bio-rad-antibodies.com/SDS/2150-0555</a> 10268
<b>Regulatory</b>	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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