

Datasheet: 2150-0555

BATCH NUMBER 160223

Description:	NATIVE BOVINE COLLAGEN III
Name:	COLLAGEN III
Format:	Purified
Product Type:	Purified Protein
Quantity:	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.

	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.

Target Species	Bovine
Product Form	Purified Protein - lyophilized
Reconstitution	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.
Preparation	Isolation steps included extraction into dilute acetic acid after pepsin treatment, followed by differential salt precipitation and purification by ion-exchange chromatography.
Preservative Stabilisers	None present
Approx. Protein Concentrations	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](#)

Product Information	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.
Protein Molecular Weight	300 kDa
Purity	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.
References	1. Hitsumoto, Y. <i>et al.</i> (2013) Adhesive properties of <i>Clostridium perfringens</i> to extracellular matrix proteins collagens and fibronectin. Anaerobe. pii: S1075-9964(13)00187-X.
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.
Guarantee	Guaranteed until date of expiry. Please see product label.
Health And Safety Information	Material Safety Datasheet documentation #10268 available at: https://www.bio-rad-antibodies.com/SDS/2150-0555 10268
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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