Datasheet: 2150-1425

Description:	NATIVE COLLAGEN I (TAIL TENDON)
Name:	COLLAGEN I (TAIL TENDON)
Format:	Purified
Product Type:	Purified Protein
Quantity:	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.

	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.

Target Species

Mouse

Product Form

Purified Protein - liquid

Preparation

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.

Buffer Solution

0.5M acetic acid

Preservative Stabilisers

None present

Approx. Protein Concentrations

1.0 mg/ml

External Database Links

UniProt:

P11087 Related reagents

Q01149 Related reagents

Entrez Gene:

12842 Col1a1 Related reagents

12843 Col1a2 Related reagents

Synonyms

Cola1, Cola2

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%
Protein Molecular Weight	~300 kDa
Purity	90%< by SDS PAGE (cross linked collagen type I dimers and trimers represent ~10%)
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.
Storage	Store at -20ºC 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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10184 available at: 10184: https://www.bio-rad-antibodies.com/uploads/MSDS/10184.pdf
Regulatory	For research purposes only

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