

Mouse COLLAGEN I protein

Cat#: orb435604 (CoA)

CERTIFICATE OF ANALYSIS

Product Information Datasheet

NATIVE COLLAGEN I (TAIL TENDON)

BATCH NUMBER BR11269

Description: NATIVE COLLAGEN I (TAIL TENDON)

Name: COLLAGEN I (TAIL TENDON)

Format: Purified

Product Type: Purified Protein

Quantity: 0.5 mg

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.

| | 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 micro centrifugation before use.

Guarantee 12 months from date of dispatch**Regulatory** For research purposes only