

Datasheet: 2150-2506

BATCH NUMBER 153104

| | |
|----------------------|-----------------------------|
| Description: | NATIVE MOUSE COLLAGEN I/III |
| Name: | COLLAGEN I/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 | Mouse |
| Product Form | Purified protein from murine tail tendons - lyophilized |
| Reconstitution | Use 0.05-0.5 M acetic acid, pH 2.5 at 4°C. Dissolved collagen retains immunologic properties of native collagen types I+III. Thermal denaturation converts dissolved collagen to gelatin. |
| Preparation | Pepsin treatment, acetic acid extraction, serial salt precipitations |
| Buffer Solution | Essentially salt free |
| Preservative Stabilisers | None present |

External Database Links

UniProt:

| | |
|------------------------|----------------------------------|
| P11087 | Related reagents |
| Q01149 | Related reagents |
| P08121 | Related reagents |

Entrez Gene:[12842](#) Col1a1 [Related reagents](#)[12843](#) Col1a2 [Related reagents](#)[12825](#) Col3a1 [Related reagents](#)

| | |
|-----------------|--------------|
| Synonyms | Cola1, Cola2 |
|-----------------|--------------|

| | |
|----------------------------|--|
| Product Information | Murine collagen type I 45% Murine collagen type III 45% Murine collagen type IV 10% Murine collagen type V <1% Non-collagenous proteins <0.5% M[a1(I)1a2(I)2]. Native triple helix. |
|----------------------------|--|

| | |
|---------------------------------|---------|
| Protein Molecular Weight | 300 kDa |
|---------------------------------|---------|

| | |
|---------------|--|
| Purity | Purity and retention of native helical structure was controlled by SDS-PAGE, ORD measurement and ability to form microfibrils. |
|---------------|--|

| | |
|-------------------|--|
| 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. |
|-------------------|--|

| | |
|----------------|---|
| 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/2150-2506 10268 |
|--------------------------------------|--|

| | |
|-------------------|----------------------------|
| Regulatory | For research purposes only |
|-------------------|----------------------------|

North & South Tel: +1 800 265 7376**America** Fax: +1 919 878 3751Email: antibody_sales_us@bio-rad.com**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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)

'M353304:190412'

Printed on 25 Mar 2023