

Datasheet: 2150-0190

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|----------------------|-------------------------|
| Description: | NATIVE HUMAN COLLAGEN V |
| Name: | COLLAGEN V |
| Format: | Purified |
| Product Type: | Purified Protein |
| Quantity: | 0.1 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 the appropriate negative/positive controls.

| | |
|---------------------------------|---|
| Target Species | Human |
| Product Form | Purified protein from human placenta - lyophilised |
| Reconstitution | Use 0.1 M acetic acid, pH 3.0. The dissolved collagen retains immunogenic properties. Thermal denaturation (5 min at 100°C) converts dissolved collagen to gelatin. |
| Preparation | Purified by acetic acid extraction after pepsin treatment followed by serial salt precipitations and ion-exchange chromatography. Purity and retention of native helical structure was controlled by SDS-PAGE, ORD measurements and by reaction with anti-collagen type specific monoclonal antibodies. |
| Buffer Solution | Essentially salt free |
| Preservative Stabilisers | None present. |
| External Database Links | UniProt: P20908 Related reagents P05997 Related reagents |

Entrez Gene:

[1289](#) COL5A1 [Related reagents](#)

[1290](#) COL5A2 [Related reagents](#)

[50509](#) COL5A3 [Related reagents](#)

Purity SDS PAGE: >95%

Contaminants:

Human Collagen Type I <1%

Human Collagen Type III <1%

Human Collagen Type IV <5%

Human Collagen Type VI <1%

References

1. Glanville, R.W. *et al.* (1979) Isolation and characterization of a native placental basement-membrane collagen and its component alpha chains [Eur. J. Biochem., 95: 383-389](#)
2. Sage, H. & Bornstein, P. (1979) Characterization of a novel collagen chain in human placenta and its relation to AB collagen [Biochemistry. 18: 3815-3822](#)
3. Klasson, S. C. *et al.* (1986) The effects of tissue pretreatment and pepsin levels on the isolation of collagens from human placenta [Coll. Rel. Res. 6: 397-402](#)

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

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10268 available at:
10268: <https://www.bio-rad-antibodies.com/uploads/MSDS/10268.pdf>

Donor material tested and found negative for HBsAg, HCV, and HIV1 and 2 antibodies.

As no test can completely guarantee this material to be free of pathogens it should be handled as potentially infectious

Regulatory

For research purposes only

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