

Datasheet: 2150-0150

BATCH NUMBER 157149

| | |
|----------------------|--------------------------|
| Description: | NATIVE HUMAN COLLAGEN IV |
| Name: | COLLAGEN IV |
| 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 appropriate negative/positive controls.

| | |
|---------------------------------------|--|
| Target Species | Human |
| Product Form | Purified protein - liquid |
| Preparation | Salt and alcohol precipitations, DEAE chromatography. Purity and retention of native helical structure was controlled by SDS-PAGE, ORD measurement, ability to form microfibrils and by reaction with anti-collagen type specific monoclonal antibodies. |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃) |
| Approx. Protein Concentrations | Total protein concentration 1.0 mg/ml |

External Database Links

UniProt:

[P02462](#)

[Related reagents](#)

[P08572](#)

[Related reagents](#)

[Q01955](#) [Related reagents](#)
[P53420](#) [Related reagents](#)
[P29400](#) [Related reagents](#)
[Q14031](#) [Related reagents](#)

Entrez Gene:

[1282](#) COL4A1 [Related reagents](#)
[1284](#) COL4A2 [Related reagents](#)
[1285](#) COL4A3 [Related reagents](#)
[1286](#) COL4A4 [Related reagents](#)
[1287](#) COL4A5 [Related reagents](#)
[1288](#) COL4A6 [Related reagents](#)

Product Information Human collagen type IV from placenta.

Human collagen type I-III, V, VI (<5%). Non collagen proteins (<0.5%).

Protein Molecular Weight 340 kDa

Purity >95% by SDS-PAGE

References 1. 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.](#)

Further Reading 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 \(2\): 383-9.](#)
2. Sage, H. & Bornstein, P. (1979) Characterization of a novel collagen chain in human placenta and its relation to AB collagen. [Biochemistry. 18 \(17\): 3815-22.](#)
3. Klasson, S.C. *et al.* (1986) The effects of tissue pretreatment and pepsin levels on the isolation of collagens from human placenta. [Coll Relat Res. 6 \(5\): 397-408.](#)
4. Bornstein, P. & Sage, H. (1980) Structurally distinct collagen types. [Annu Rev Biochem. 49: 957-1003.](#)

Storage Store at +4°C or at -20°C if preferred.
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 #10258 available at:
<https://www.bio-rad-antibodies.com/SDS/2150-0150>
10258

Donor material tested and found negative for HBsAg, and HCV, HIV1, HIV2 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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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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