Datasheet: 2150-0150

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

<0.1% 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 derived from placenta. Cross reactivity: Human collagen type I-III, V, VI (<5%). Non collagen proteins (<0.5%).
Protein Molecular Weight	340 kDa
Purity	>95% by SDS-PAGE
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	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the protein. Storage in frost-free freezers is not recommended.
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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