

Active Native Bovine Collagen Type V Protein

Cat. No. Col-01B Lot. No. (See product label)

SPECIFICATION

Product Overview	Bovine COLLAGEN Type V has been prepared from Bovine Placenta and is chromatographically and immunologically pure.
Species	Bovine
Source	Bovine
Description	In muscle tissue, collagen serves as a major component of the endomysium. Collagen constitutes one to two percent of muscle tissue, and accounts for 6% of the weight of strong, tendinous muscles. A collagen may be defined as a protein containing sizable domain(s) of triple-helical conformation. Type IV collagen is a major macromolecular constituent of basement membranes and can be readily isolated from basement-membrane-rich tissues or highly vascularized tissues such as the placental villi. This collagen appears to be largely restricted to structures identifiable as basement membranes. In contrast, type VI collagen appears to be prevalent in several tissues even though it has been isolated largely from placental villi preparations. The extent to which type VII and VIII collagens are distributed is not known.
Form	Liquid (sterile filtered). 0.5M Acetic Acid.
Bio-activity	This product reacts with anti-Collagen Type V. Reaction with anti-Collagen I, II, III, IV or VI is negligible (typically less than 1% cross reactivity was detected by ELISA).
Purity	Bovine COLLAGEN Type V has been prepared from Bovine Placenta and is

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chromatographically and immunologically pure.

Applications

ELISA: 1:10,000; Western Blot: 1:1000; Immunohistochemistry: 1:100-1:500; Other Dilution: User Optimized. For use as a control or standard in indirect trapping ELISA for quantitation of antigen using a standard curve, for immunoprecipitation and for other immunological assays as optimized by the user. Specific conditions should be optimized by user.

Storage

Store vial at 4 centigrade prior to opening. This product is stable at 4 centigrade as an undiluted liquid. Dilute only prior to immediate use.

Concentration

1 mg/ml by UV absorbance at 280 nm.

Preservative

0.01% (w/v) Sodium Azide

GENE INFORMATION

Gene Name

COL5A1

Official Symbol

COL5A1

Synonyms

Extracellular Matrix Protein; EDSC; EDSCL1

Gene ID

100848491

mRNA Refseq

XM_024999726.1

Protein Refseq

XP_024855494.1

UniProt ID

G3MZI7

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SDS-PAGE of Col-01B

SDS-PAGE of Bovine Collagen Type V Protein. Lane 1: Bovine Collagen Type V (reduced) [10g]. Lane 2: Bovine Collagen Type V (reduced) [5g]. Lane 3: Bovine Collagen Type V (reduced) [1g]. Lane 4: Molecular Weight Marker. Lane 5: Bovine Collagen Type V (non-reduced) [1g]. Lane 6: Bovine Collagen Type V (non-reduced) [5g]. Lane 7: Bovine Collagen Type V (non-reduced) [10g]. Collagen Neutralized with NaOH. Coomassie Stained.

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