# Native Human Collagen Type III

**Cat. No.** Collagen-326H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | This Type III Collagen product is isolated from human placenta and is purified using a multi-step process with approximately 85% Type III collagen with the remainder being comprised of Type I collagen. |
| **Species** | Human |
| **Source** | Human placenta |
| **Description** | Collagen type III, a fibrous scleroprotein found in bone, cartilage, tendon, bone marrow stroma and other connective tissue, yields gelatin on boiling. Collagen type III scleroprotein is a simple protein found in horny and cartilaginous tissues and in the lens of the eye. 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. |
| **Form** | Liquid in 0.01 N HCl (to be confirmed from label) |
| **Endotoxin** | < 0.05 EU/mg by LAL |
| **Applications** | Typically used as a thin coating on tissue culture surfaces or as a control. This product is generally used in vitro as a substrate scaffold to enhance cell attachment, adherence and proliferation. |
| **Notes** | Human source has been tested and found negative for Hepatitis B, C, Syphilis and |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| | immunodeficiency virus-1. |
| **Storage** | Store vial at 2-10°C |
| **Concentration** | To be diluted with 0.01 N HCl to desired concentration |
| **Shipping** | 2-10°C |
| **EC** | 9007-34-5 |
| **Unit definition** | 0.01 N HCl |
| **Usage** | Preperation Procedure: 1. Remove required quantity of collagen from the bottle and dispense into a dilution vessel. 2. Dilute Type III collagen with a 0.01 N HCl to desired concentration. 3. Swirl contents gently until material is completely mixed. |

## GENE INFORMATION

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| **Gene Name** | COL3A1 collagen type III alpha 1 chain [Homo sapiens] |
| **Official Symbol** | COL3A1 |
| **Synonyms** | COL3A1; collagen, type III, alpha 1; EDS4A; FLJ40358 |
| **Gene ID** | 1281 |
| **mRNA Refseq** | NM_000090 |
| **Protein Refseq** | NP_000081 |
| **MIM** | 120180 |

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| **UniProt ID** | P02461 |

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