

Native Human Collagen Type III

Cat. No. Collagen Type III-07H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Collagen Type III is isolated from human placenta. Gelation Time: <90 mins Fibril Formation: >0.5 abs. units pH: approx 2 Telo vs. Atelo: Atelo-collagen
Species	Human
Source	Placenta
Description	Human Collagen Type III is initially produced as procollagen, a protein consisting of three pro-α1(III) chains that form the triple-stranded, rope-like molecule. After being synthesized, the procollagen molecule is modified by the cell. Enzymes modify the amino acids lysine and proline in the protein strands by adding chemical groups that are necessary for the strands to form a stable molecule and then later to crosslink to other molecules outside the cell.
Form	Non-sterile powder
Endotoxin	≤ 10.0 EU/mL as measured by kinetic LAL
Purity	>99.9%
Applications	Tissue engineering research, Wound healing constructs, Coatings, Solid free-form fabrications, Electrospinning, in-vitro research, Nerve Repair, Hemostats, Sealants,

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Coils, Sponges, Spheres/Beads, Ligaments, Strings, Tubes/Cylinders, Films
 Note: Lyophilized form is not recommended for formation of a 3D gel

Usage

Preparation Procedure

1. Reconstitute the 10 mg vial with 10 mL of cold 0.01 N HCl and gentle swirly until completely solubilized.
2. Remove required quantity of collagen from the bottle and dispense into a dilution vessel.
3. Dilute Type III collagen with a 0.01 N HCl to desired concentration.
4. Swirl contents gently until material is completely mixed.

Storage 4 centigrade

GENE INFORMATION

Official Symbol Collagen Type III

Synonyms Collagen Type III

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