

Native Human Collagen Type IV

Cat. No. Collagen Type IV-08H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This Type IV collagen is isolated from human placenta and is purified using a multi-step process.
Species	Human
Source	Placenta
Description	Human Collagen Type IV is the primary collagen found in the extracellular basement membranes separating a variety of epithelial and endothelial cells. It is a major component of the dermal-epidermal junction where it is mostly found in the lamina densa. It is a heterotrimeric molecule containing two $\alpha 1$ -like and one $\alpha 2$ -like chains.
Form	Lyophilized powder
Endotoxin	≤ 1.00 EU/mL as measured by kinetic LAL
Applications	Tissue engineering research, Wound healing constructs, Coatings, Solid free-form fabrications, Electrospinning, in-vitro research, Nerve Repair, Hemostats, Sealants, 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 1 mg vial with 1 mL of cold, sterile 0.25% acetic acid and mix by pipetting up and down several times. Allow to sit at 2 to 8 centigrade swirling periodically for >1 hour.

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Note: The resulting solution will be slightly hazy. If there are some insoluble materials present and you wish to remove it, aseptically centrifuge the material.

2. Dilute the product to desired concentration with sterile 0.25% acetic acid. A typical final coating concentration may be 10 to 100 µg/cm². Testing will likely be required to determine optimal concentrations required for different cell culture systems.

3. Add appropriate amount of diluted product to culture surface.

4. Incubate at room temperature or 37 centigrade, covered, for 1-2 hours.

5. After incubation, aspirate any excess remaining material.

6. Rinse coated surface carefully with a sterile balanced salt solution. Avoid scratching surfaces.

7. Aspirate remaining material from coated surface.

8. Coated culture vessels are now ready to use. The coated culture vessels may be stored at 2-10 centigrade.

Storage

Store at -20 centigrade before reconstitution.

Store at 4 centigrade for 3 months after reconstitution.

GENE INFORMATION**Official Symbol**

Collagen Type IV

Synonyms

Collagen Type IV

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