

Native Rat Collagen Type I (Atelocollagen) Protein

Cat. No. Collagen Type I-03R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified Rat Collagen Type I (Atelocollagen) from rat tail tendon.
Species	Rat
Source	Rat tail tendons
Description	Type I collagen is the most abundant collagen and is found in connective tissues including tendon, ligament, dermis and blood vessel. It is the major component and the primary determinant of tensile strength of the extracellular matrix (ECM). It is widely used as a thin layer on tissue-culture surfaces to enhance the attachment and proliferation of a variety of cells including endothelial cells, fibroblasts, hepatocytes, epithelial cells etc. In addition, collagen I can self-assemble into a 3-D supermolecular gel in vitro, making it an ideal biological scaffold to promote more in vivo-like cellular morphology and function.
Form	Lyophilized, salt free, 30 mg/vial
Purity	Rat collagen Type I > 90% Rat collagen type III <10%
Applications	Cell culture (coating or 3D gel)
Storage	Collagen dissolved in acetic acid is stable at 4 centigrade for 1 month. Lyophilized collagen long term storage at -20 centigrade or lower.

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Reconstitution

Dissolve in 20 mM acetic acid. Suspension should be shaken or stirred for several hours or overnight between 2-8 centigrade. Material is dissolved when it appears homogeneous, with no schlieren pattern (light refraction due to differing protein concentrations in the suspensions). Recommended concentration 1-5 mg/mL.

GENE INFORMATION

Official Symbol

Collagen Type I

Synonyms

COL1A1; COL1A2; osteogenesis imperfecta; Collagen Type I

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