

Native Porcine Collagen Type I Protein

Cat. No. Collagen Type I-12P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Highly Purified Porcine Collagen Type I from porcine tendon. Lyophilized. Reconstitute to a concentration of 1-5 mg/mL.
Species	Porcine
Source	Porcine Tail Tendon
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 superamolecular 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	Porcine Collagen Type I $\geq 95\%$
Applications	Coating material for cell culture studies or 3D gel formation.
Storage	Porcine Collagen Type I dissolved in acetic acid is stable at 4 centigrade for 1 month. Lyophilized collagen long term storage (2 years) at -20 centigrade or lower.

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Reconstitution

Dissolve in 10-50 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 suspension). 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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