

# Native Bovine Collagen Type I (Atelocollagen) Protein

**Cat. No.** Collagen Type I-01B    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Purified Bovine Collagen Type I (Atelocollagen) from bovine tendons.
<b>Species</b>	Bovine
<b>Source</b>	Bovine tendons
<b>Description</b>	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.
<b>Form</b>	Lyophilized, salt free, 30 mg/vial
<b>Purity</b>	Bovine Collagen Type I (Atelocollagen) > 95%
<b>Applications</b>	Coating material for cell culture studies or 3D gel formation.
<b>Storage</b>	Bovine Collagen Type I (Atelocollagen) 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 gently stirred for several hours or overnight at 4 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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