

# Native Goat Collagen Type I Protein

**Cat. No.** Collagen Type I-10G    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Highly Purified type I native goat collagen. Lyophilized. Reconstitute to 10 mg/mL
<b>Species</b>	Goat
<b>Source</b>	Goat
<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, 10 mg/vial
<b>Purity</b>	SDS-PAGE 90%
<b>Applications</b>	Used for goat collagen type I standard. Antigen for antibody production. Coating material for cell culture studies. Collagen microfibrils will activate platelets causing aggregation. May not be suitable for 3-D gel formation.
<b>Storage</b>	Collagen 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**

Use 0.5 M acetic acid, pH 2.5 at 4 centigrade. Collagen solubility 10 mg/ml. Dissolved collagen retains immunologic properties of native collagen. Structure of native collagen confirmed by ability to form microfibrils.

**GENE INFORMATION**

**Official Symbol**

Collagen Type I

**Synonyms**

COL1A1; COL1A2; osteogenesis imperfecta; Collagen Type I

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