

Native Bovine Collagen Type I Protein

Cat. No. Collagen Type I-09B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Highly Purified type I native collagen from bovine skin. Lyophilized
Species	Bovine
Source	Bovine (calf) skin
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, 10 mg/vial
Purity	Bovine Type I Collagen (90%) other non-collagen proteins (<0.5%)
Applications	Used for type I collagen standard. Antigen for antibody production. Coating material for cell culture studies. May not be suitable for 3-D gel formation.
Storage	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 0.1 M acetic acid, pH 3.0
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GENE INFORMATION

Official Symbol	Collagen Type I
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Synonyms	COL1A1; COL1A2; osteogenesis imperfecta; Collagen Type I
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