

Native Bovine COL3A1 Protein

Cat. No. COL3A1-17B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified Bovine Collagen Type III (Atelocollagen) from bovine placenta
Species	Bovine
Source	Bovine placenta
Description	Type III collagen is the second most abundant collagen in tissues and is found most commonly in tissues exhibiting elastic properties such as skin, lungs, intestinal walls and walls of blood vessels. It is a homotrimer comprised of three alpha-1 chains and resembles other fibrillar collagens in structure and function. It is synthesized as procollagen, similar to collagen I, but the N-terminal propeptide remains attached in the mature fibrillar type III form. Mutations of type III collagen causes Ehlers-Danlos syndrome, EDS IV, which affect arteries, internal organs, joints and skin, and may cause sudden death when the large arteries rupture.
Form	Lyophilized, salt free, 10 mg/vial
Purity	Bovine Collagen Type III (Atelocollagen) > 90% Bovine Collagen Type I (Atelocollagen) < 10%
Applications	Coating material for cell culture studies or 3D gel formation.
Storage	Bovine Collagen Type III (Atelocollagen) dissolved in acetic acid is stable at 4 centigrade for 1 month. Lyophilized collagen long term storage (2 years) at -20

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centigrade or lower.

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**

COL3A1

Synonyms

COL3A1; Collagen type III, alpha 1; Collagen III, alpha-1 polypeptide; collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant); EDS4A; Collagen Type III

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