

## Native Bovine COL3A1 Protein

Cat. No. COL3A1-18B    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Product Overview | Purified type III bovine collagen. Lyophilized.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Species          | Bovine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Source           | Bovine (calf ) skin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Description      | <p>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.</p> <p>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.</p> |
| Form             | Lyophilized, salt free, 10 mg/vial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Purity           | Bovine collagen type III - 90%<br>Other bovine collagens - 10%<br>Non-collagen proteins - below 0.5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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 0.5 M acetic acid, pH 2.5. Dissolved collagen retains immunologic properties of native collagen. Structure of native collagen confirmed by ability to form microfibrils.

**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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