

## Native Bovine Placenta Collagen Type V (Col-5)

**Cat. No.:** AP2F64

**Product Type:** Animal Proteins

**Size:** 1 mg; 10 mg; 100 mg; 1 g

### Product Overview

BioVenic's Native Bovine Placenta Collagen Type V (Col-5) is a native protein derived from Bovine Placenta.

### Specifications

Type	Native Protein
Species	Bovine
Source	Placenta
Purification	Differential salt precipitation Purified
Purity	>98% (SDS-PAGE)
Predicted Molecular Weight	440 kDa
Physical State	Lyophilized

### Target Information

Type V collagen is a unique member of the collagen family, playing a crucial role in regulating the assembly and organization of other collagen fibers. Unlike the more structural collagen types like I, II, and III, Type V collagen itself forms thin, interwoven fibrils that contribute to the overall architecture and stability of the collagen network. Type V collagen is a form of fibrillar collagen found in the dermal-epidermal junction, placental tissue and in association with type I collagen-containing tissue. It plays an essential role in cell behaviour.

Protein	Bovine Collagen Type V (Col-5)
Protein Synonym	Type V collagen; Col-V; Collagen type V; Col-5

### Shipping and Storage

Dissolved in acetic acid is stable for 1 month at 4°C. Stored in the dark at -20°C for long term storage. Avoid repeated freeze-thaw cycles. It will degrade gradually under neutral conditions.

## User Note

Dissolve in 20 mM acetic acid. Suspension should be shaken or stirred at 2-8°C for several hours or overnight. Material is dissolved when it is homogeneous, without streaking. Recommended concentration 1-5 mg/mL.

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## Reference

Xu, J. *et al.* Extraction and characterization of bovine collagen Type V and its effects on cell behaviors. *Regenerative biomaterials*. 2022, 9: rbac028.

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The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.